

Fig. 2

APPROVED	O G FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS
	510
	389, 15

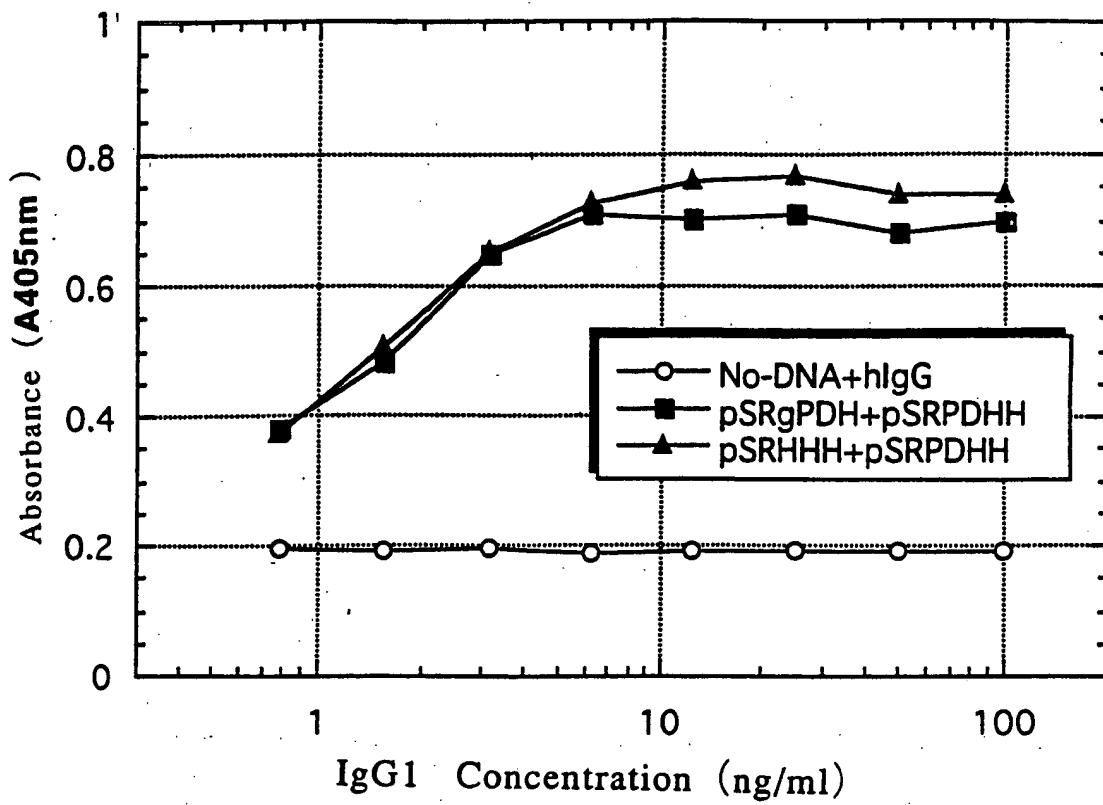


Fig. 72

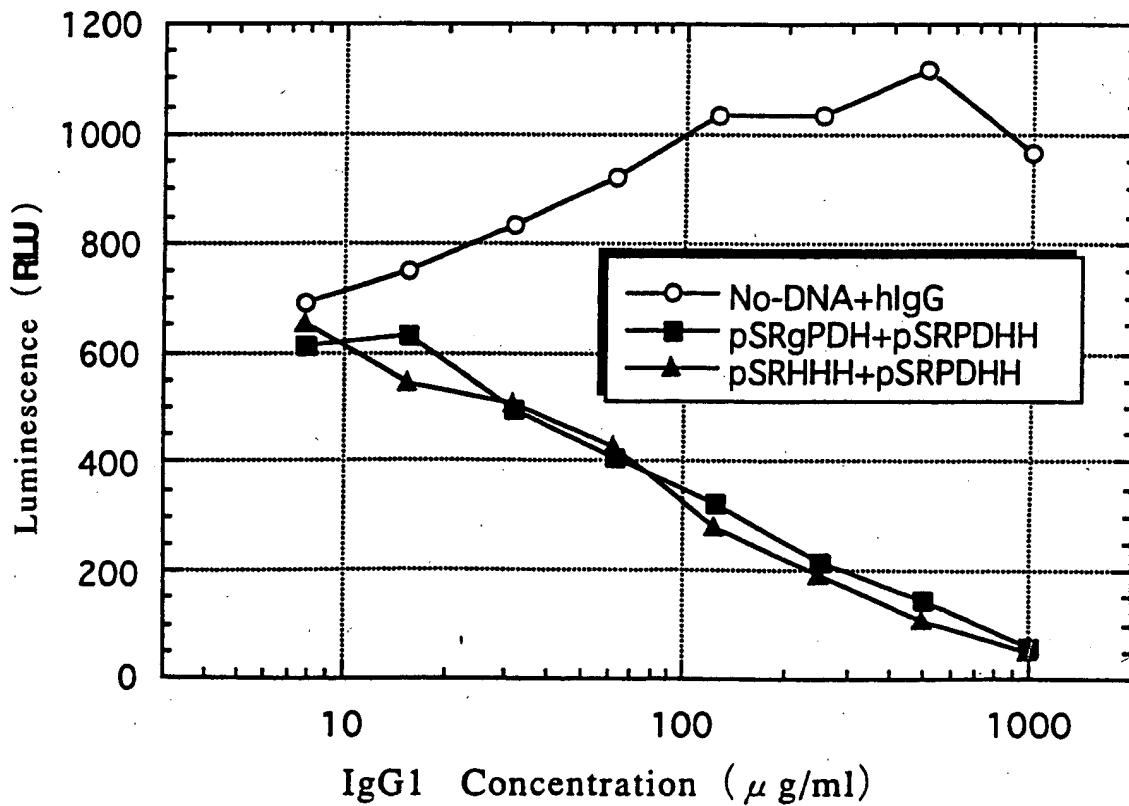


Fig. 73

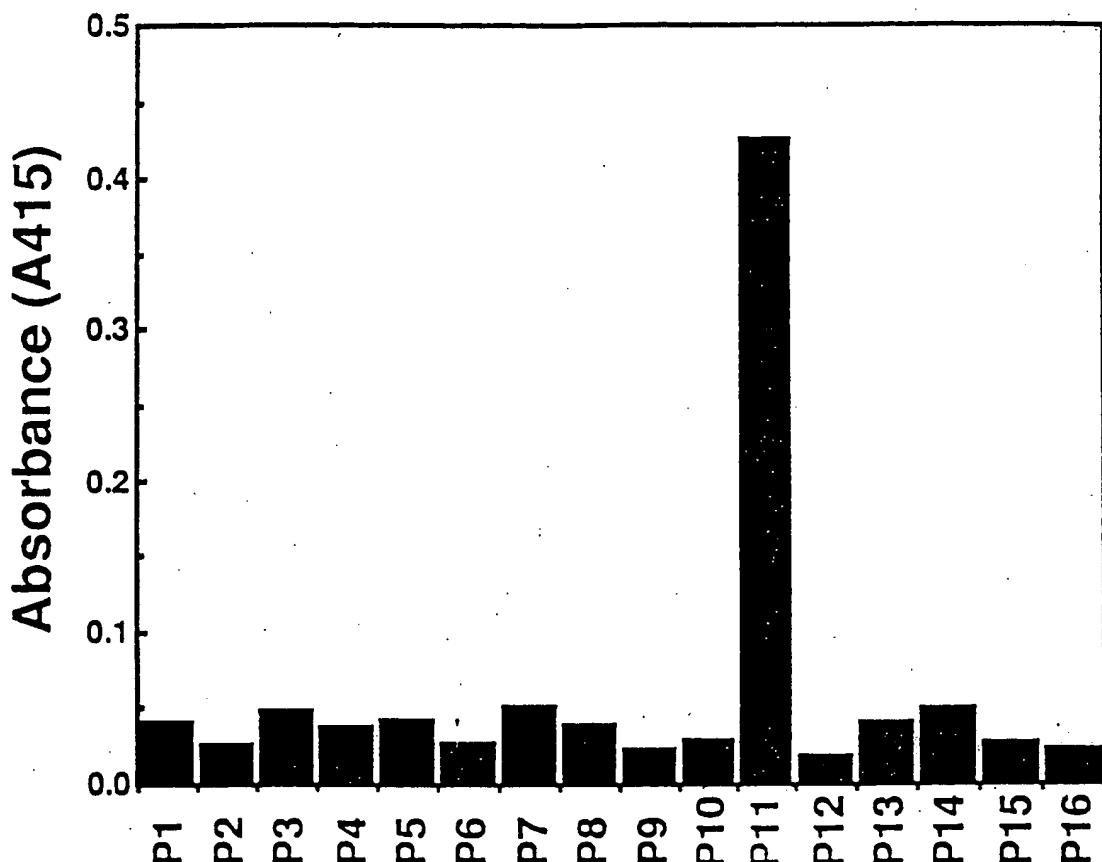
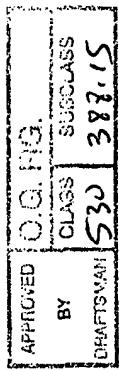


Fig. 3

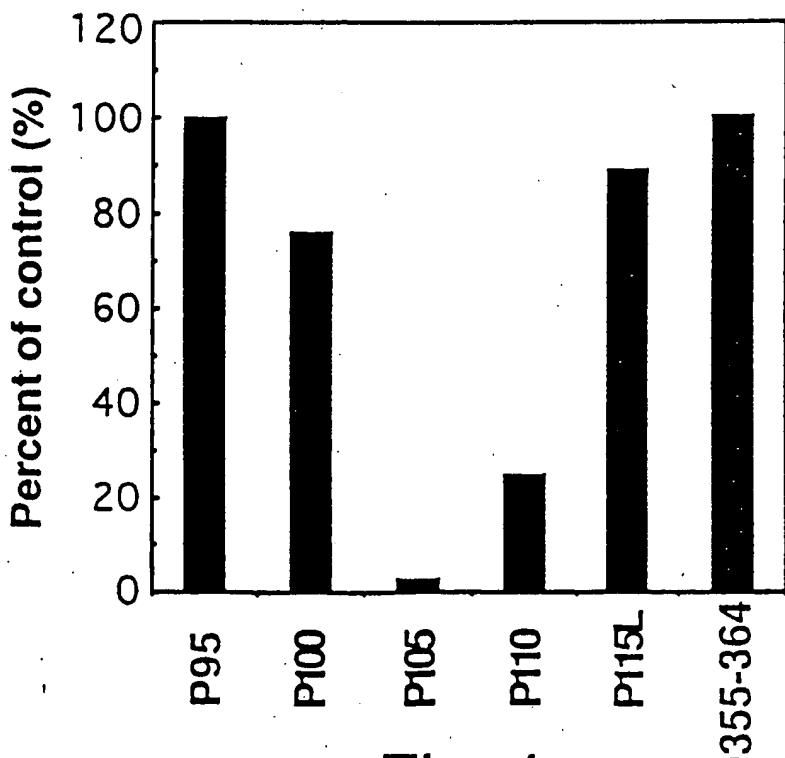


Fig. 4

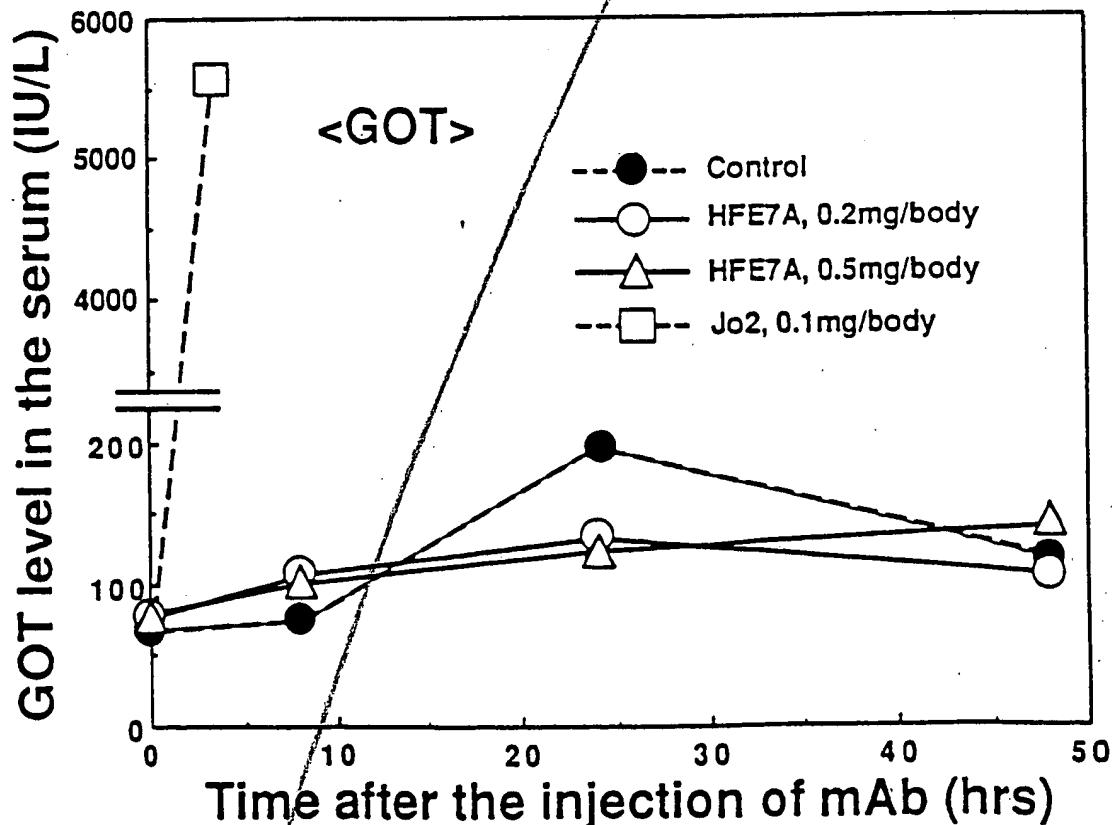
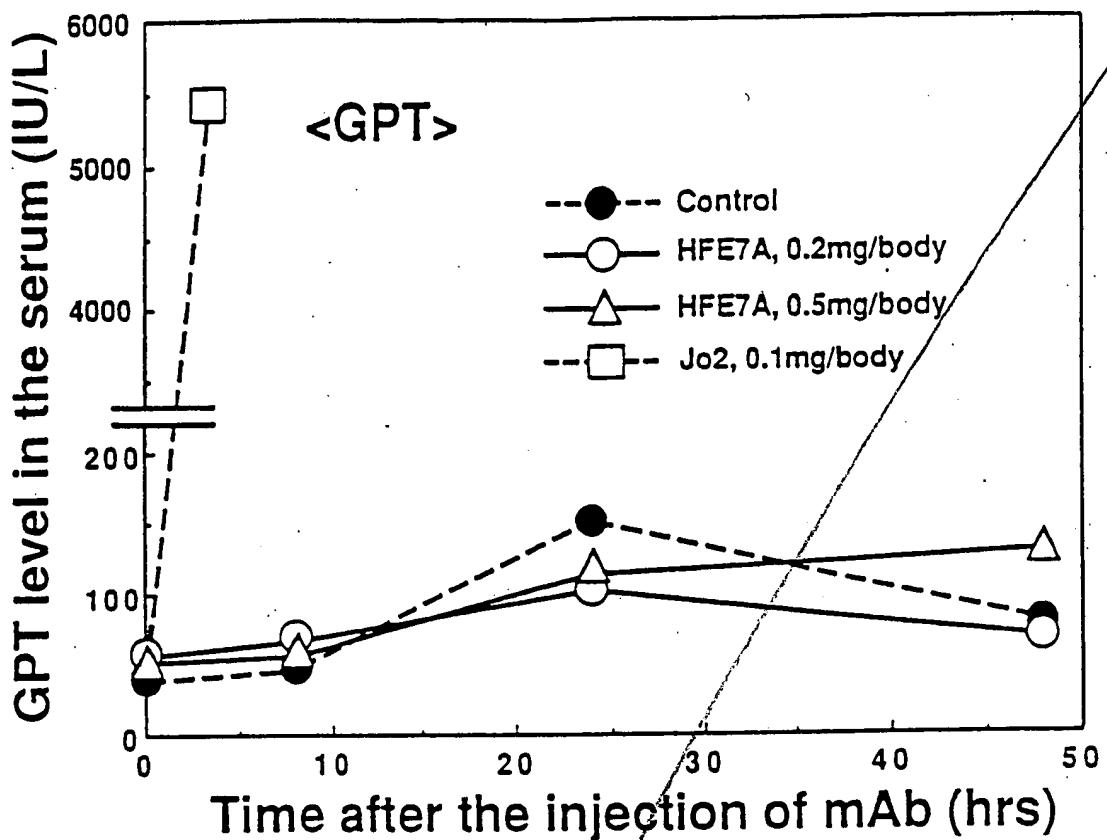


Fig. 5

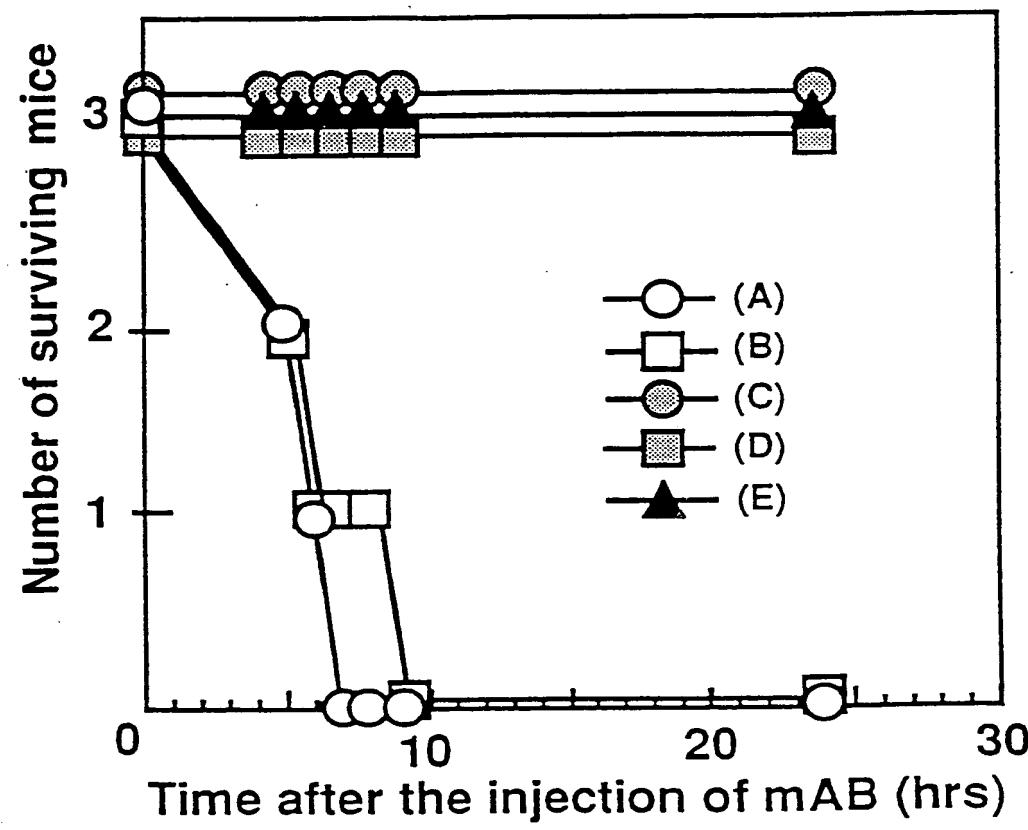


Fig. 6

APPROVED C.G. IgG
BY CLASS 530 388.15
DRAFTSMAN

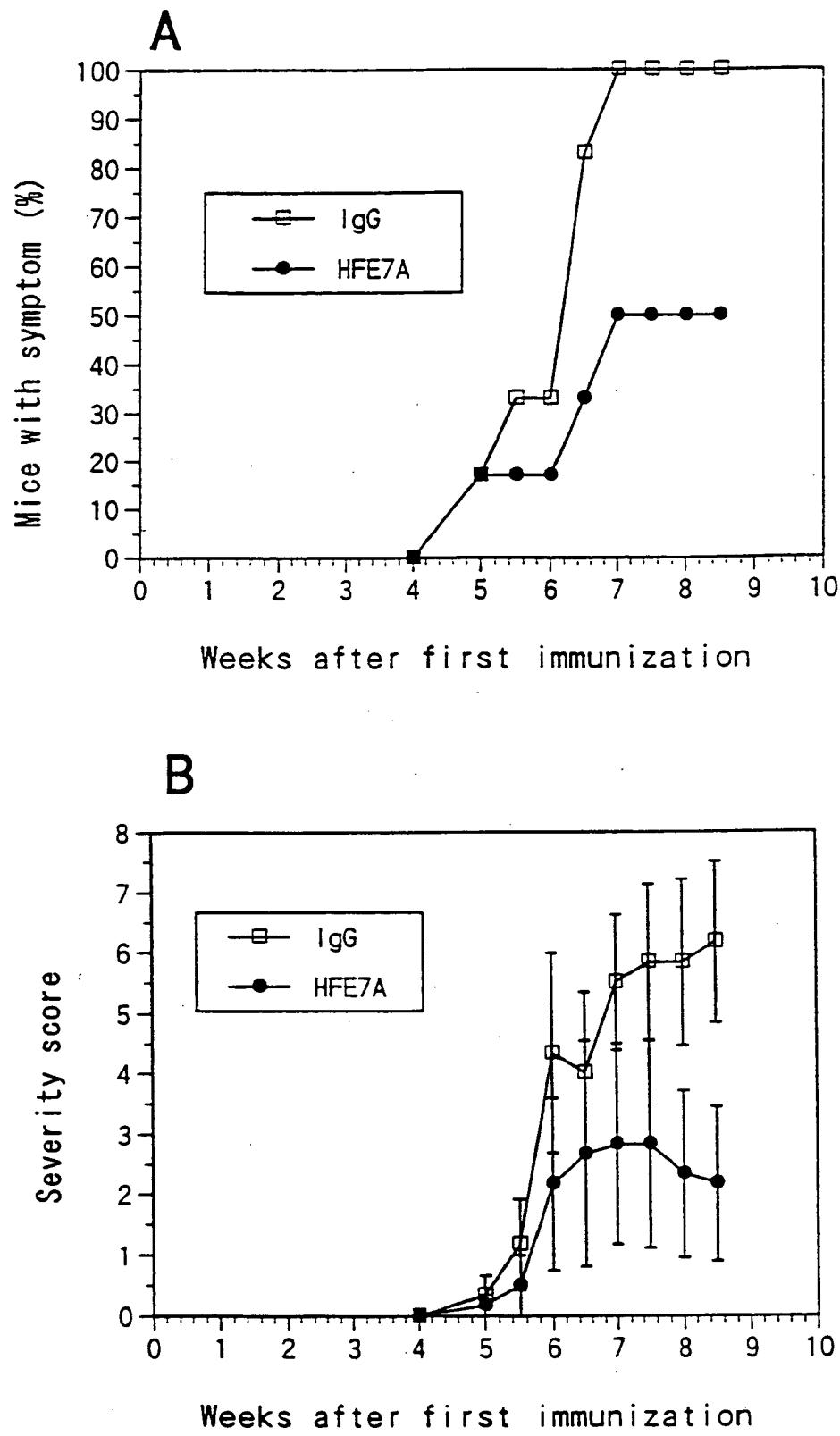


Fig. 7

APPROVED 10.3. 1983.
 CLASS 530 SUBCLASS 388.15
 BY DRAFTSMAN

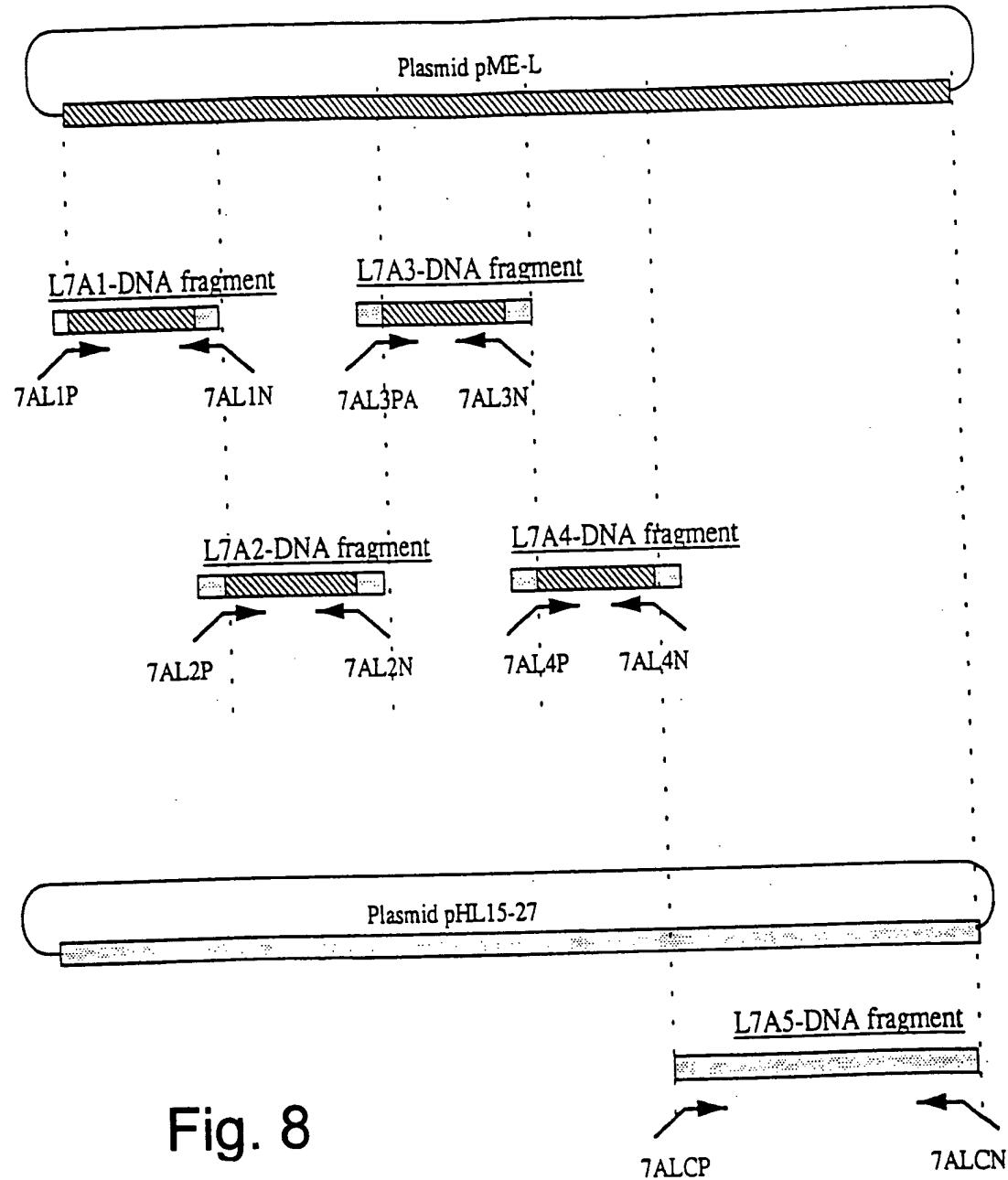


Fig. 8

APPROVED	O.G. H.G.
BY	
CLASS	SUBCLASS
DEPARTMENT	530 388.15

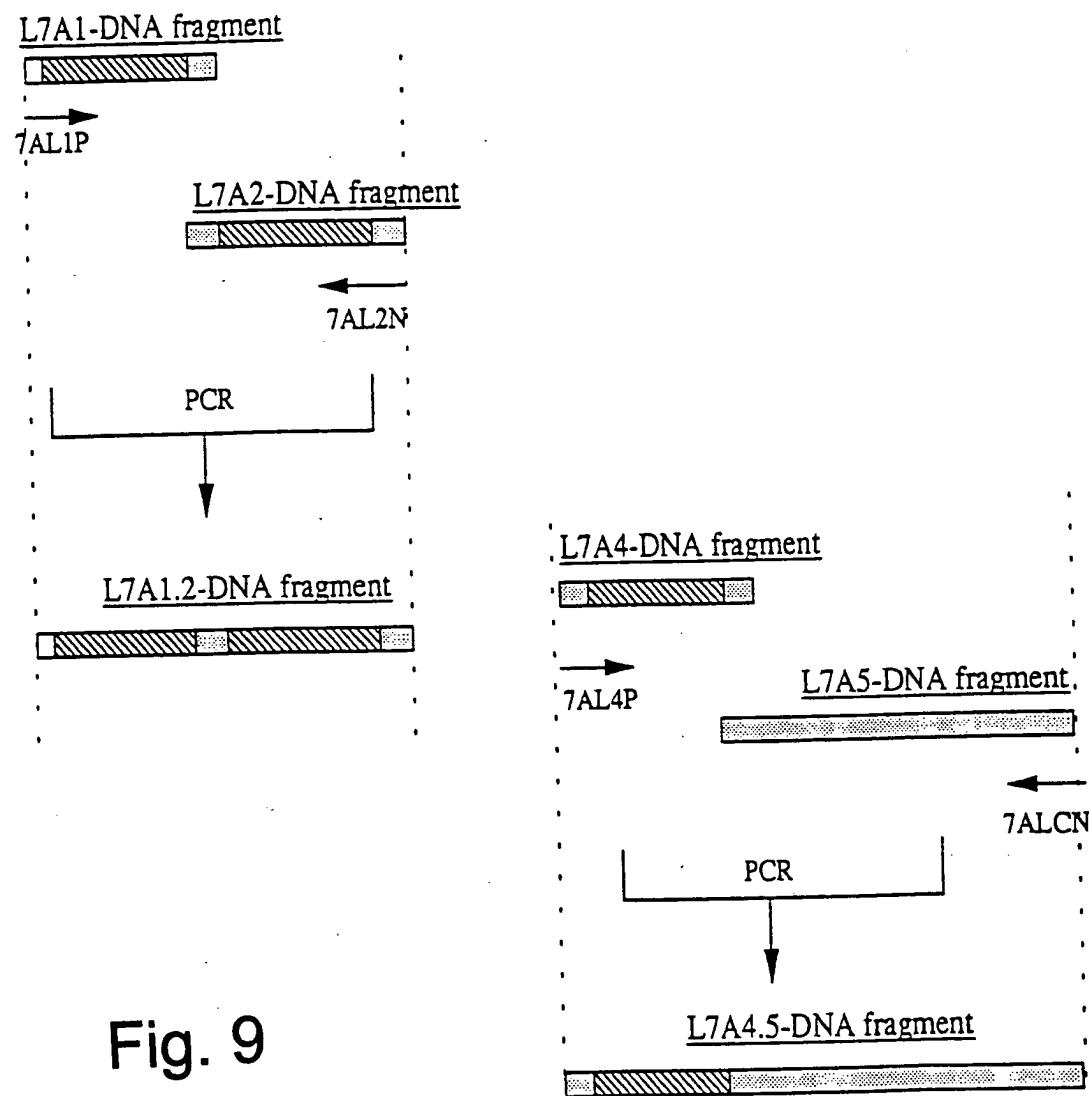


Fig. 9

APPROVED	O.Q. HQ.	
BY	CLASS	SUBCLASS
DRAFTSMAN	530	388.15

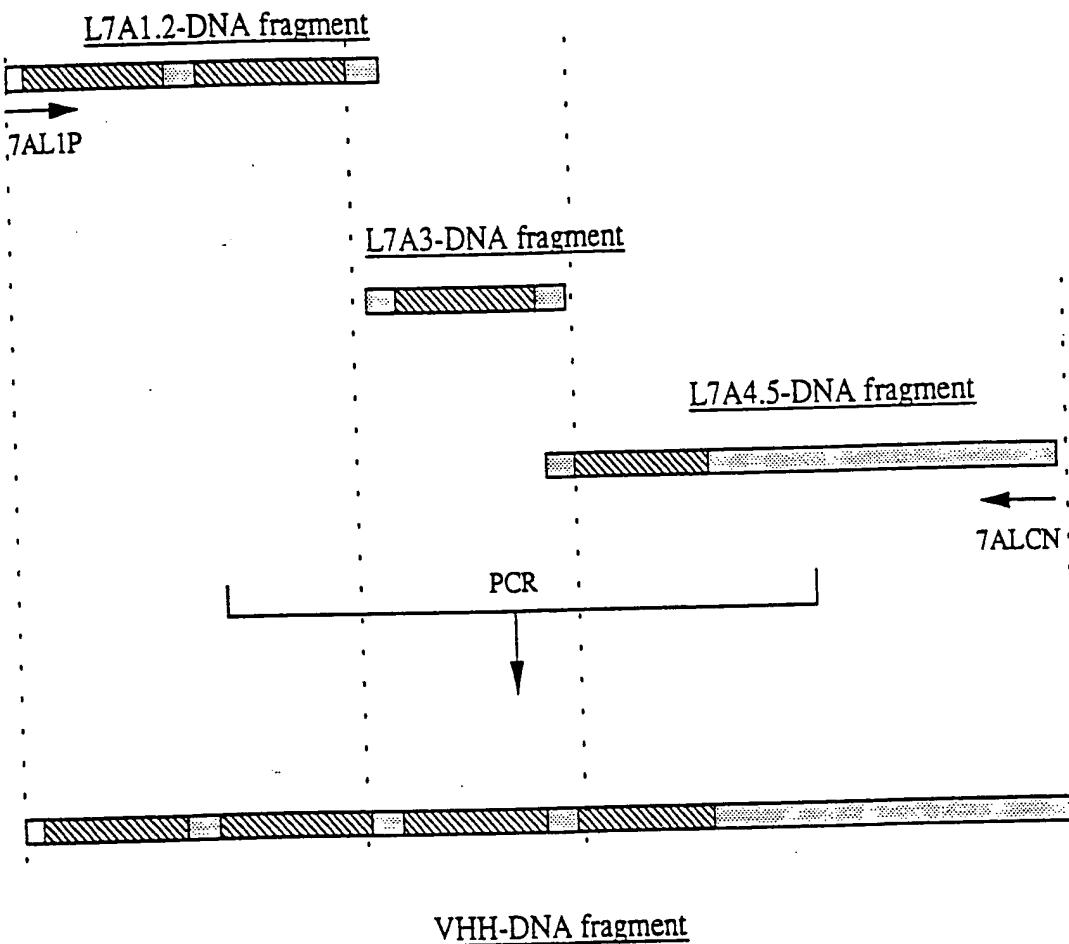


Fig. 10

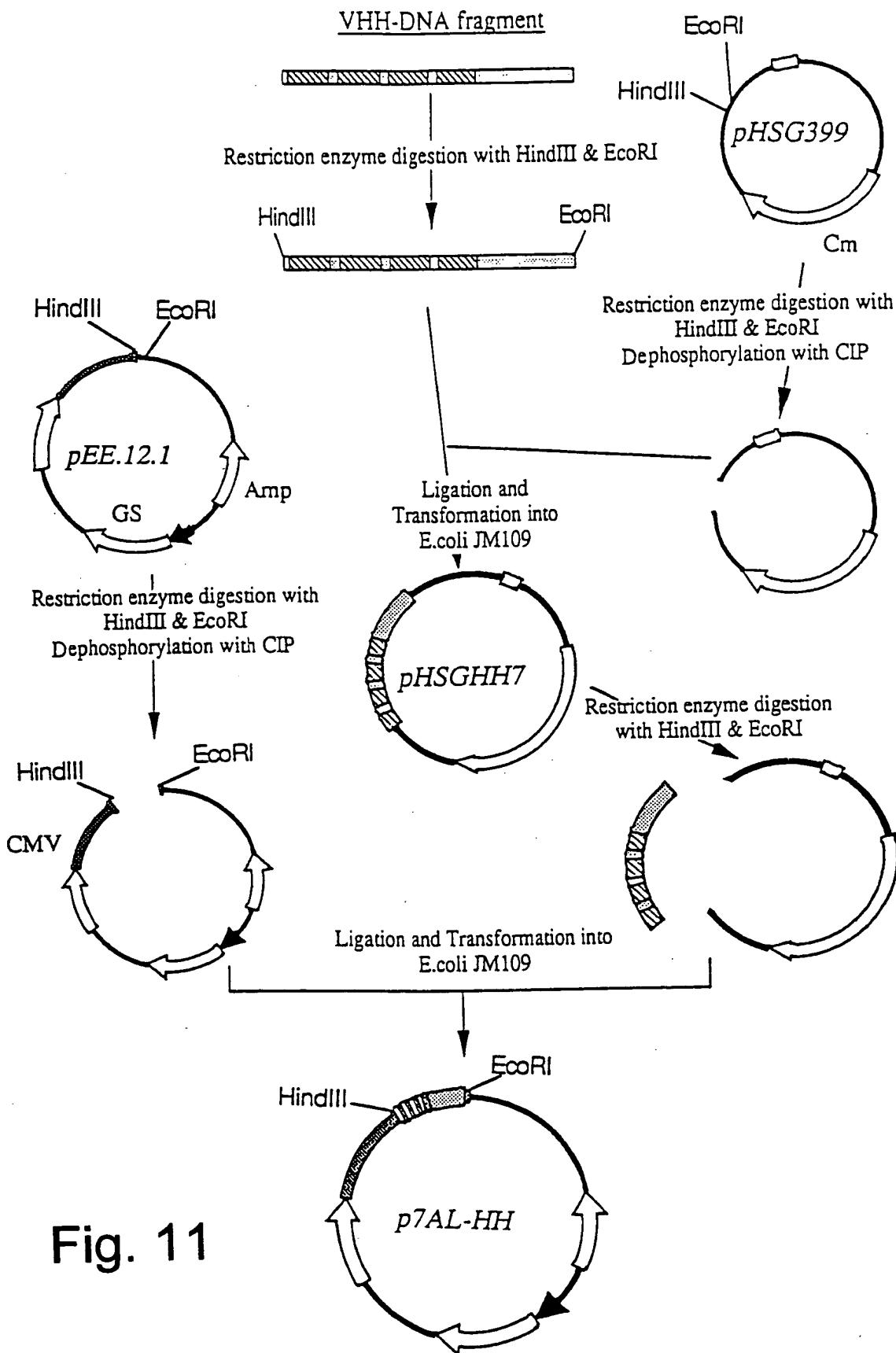
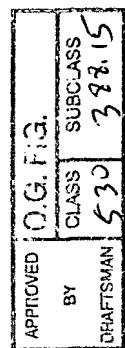


Fig. 11

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	530 388.15 SUBCLASS

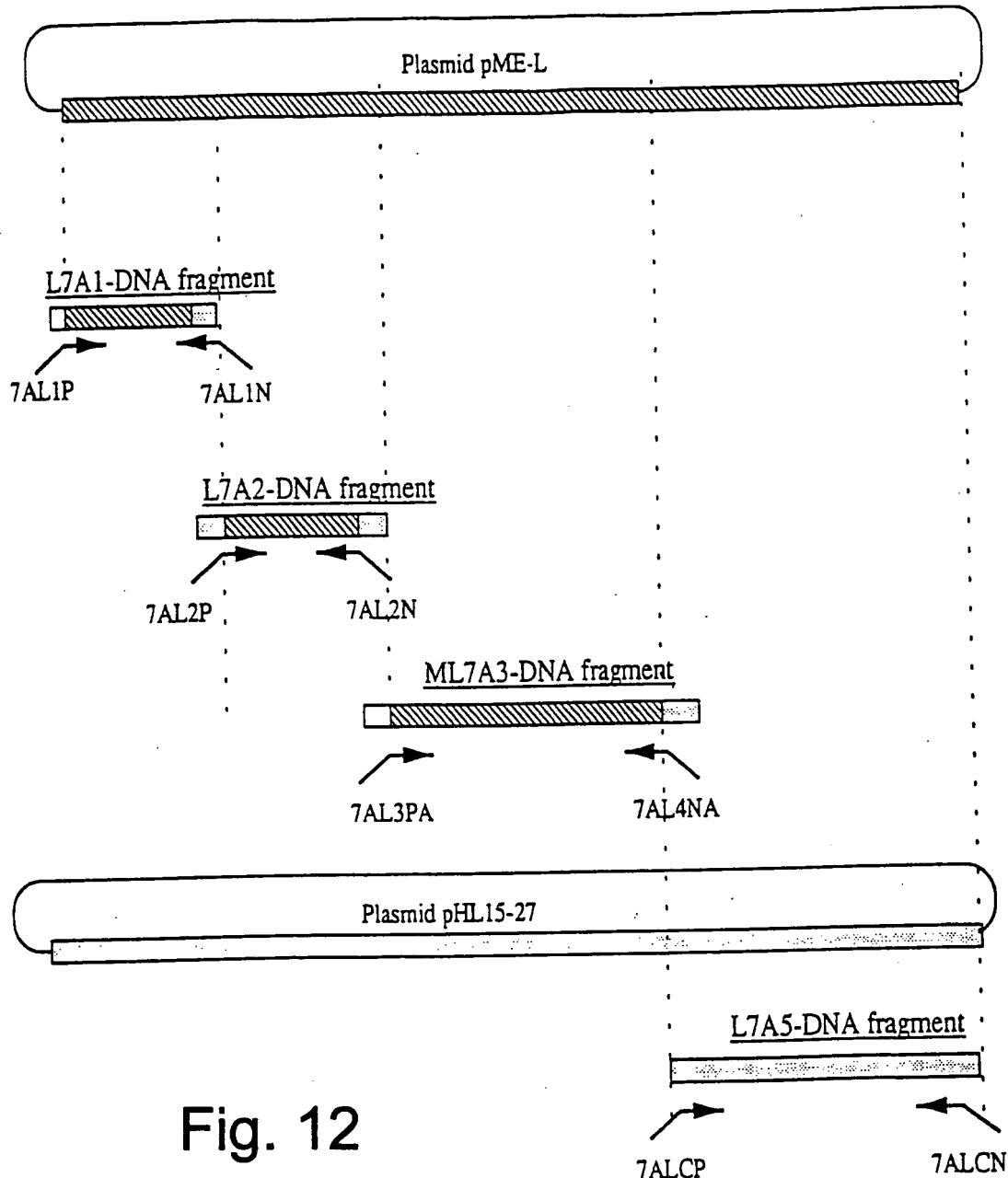


Fig. 12

Approved O.G. FIG.
By DRAFTSMAN CLASS SUBCLASS
530 398.15

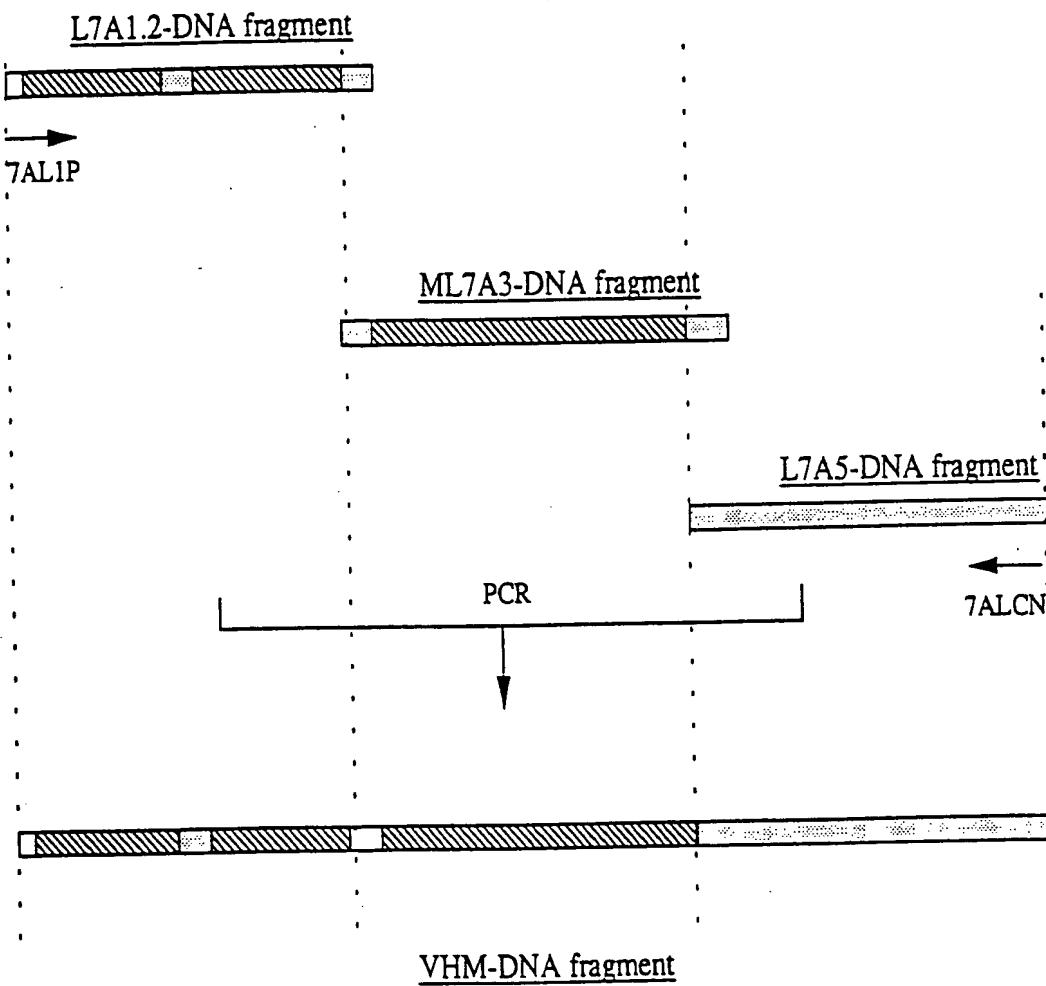


Fig. 13

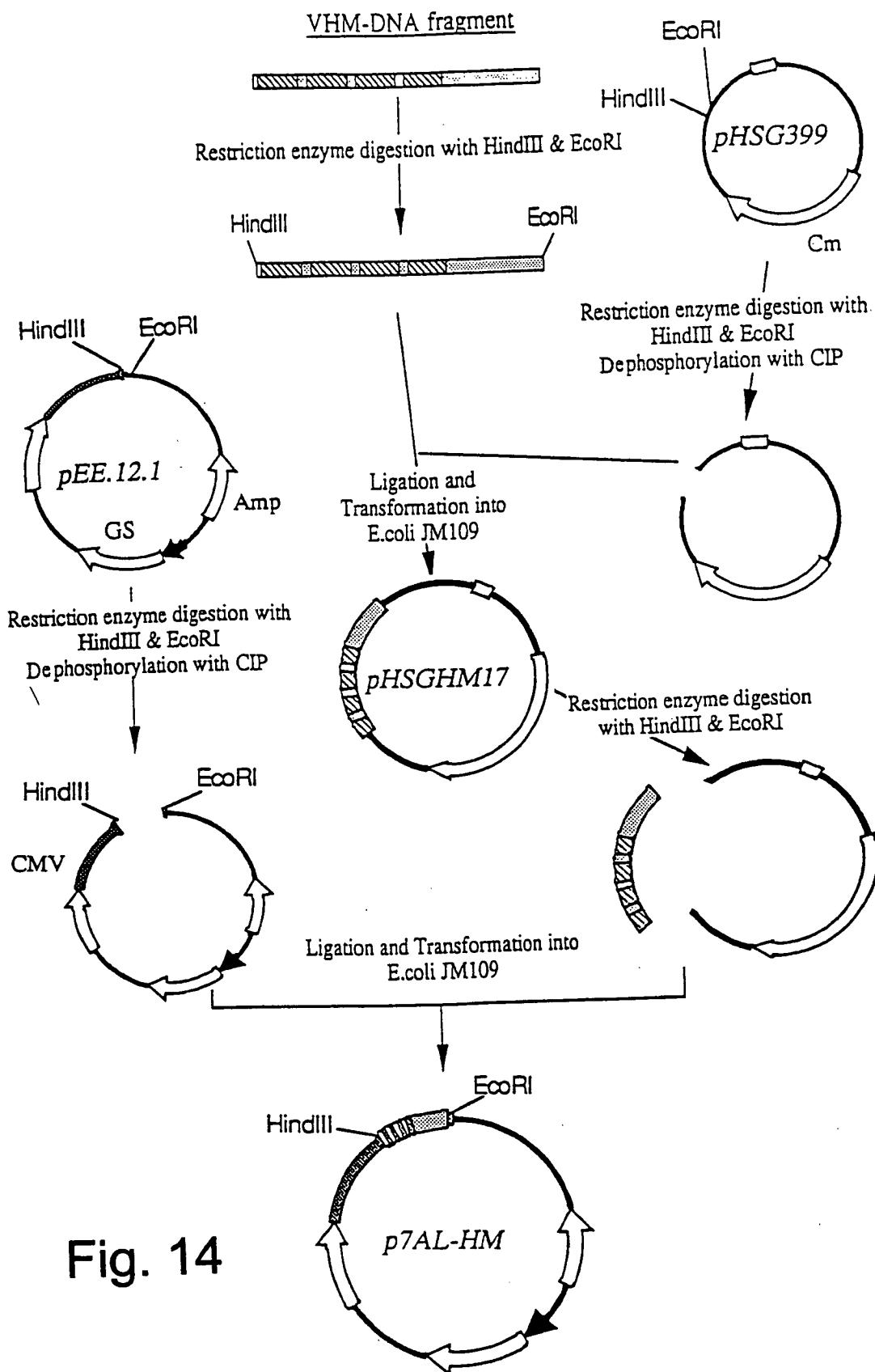
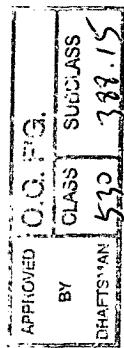
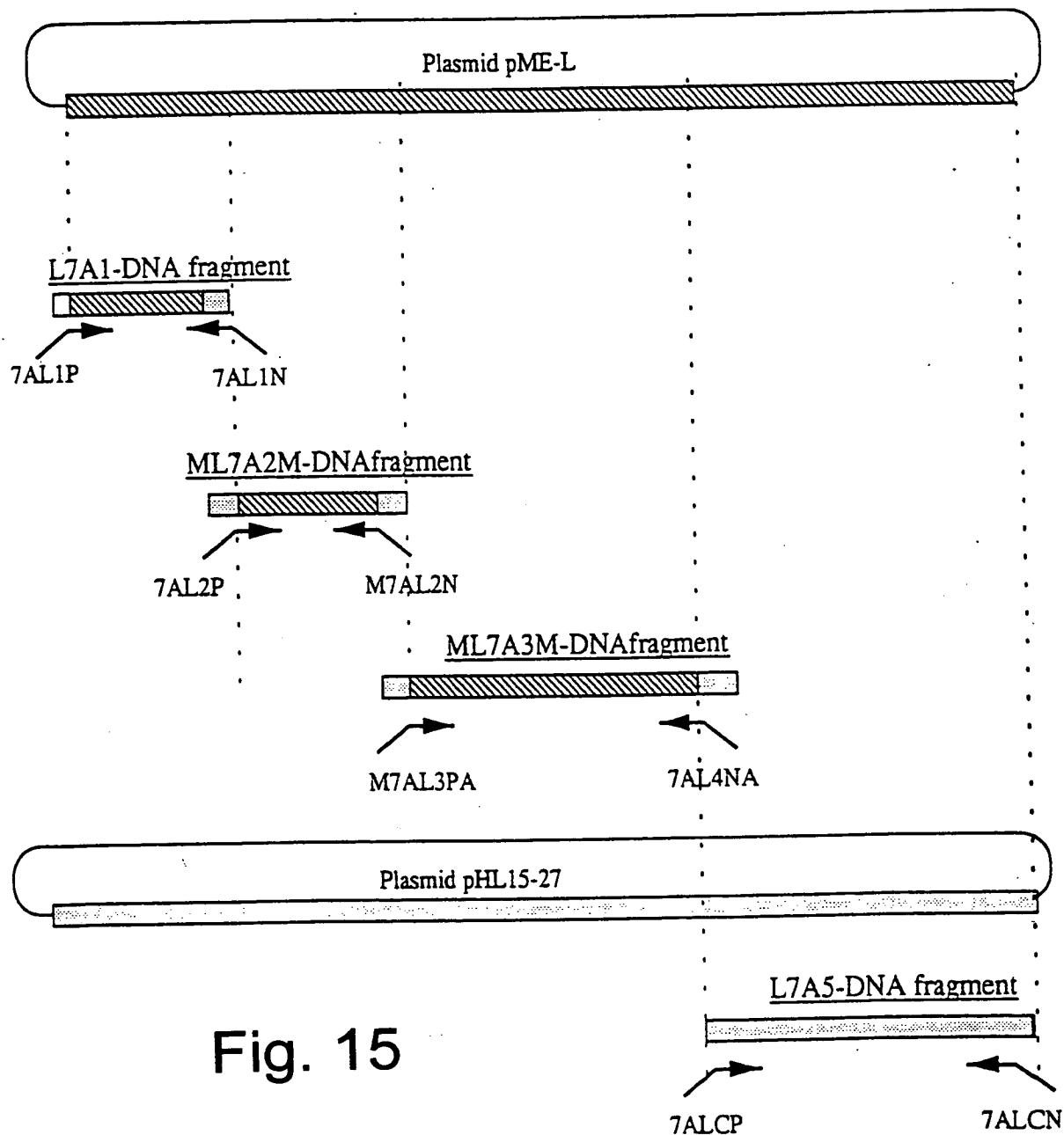


Fig. 14

APPROVED	O.C.	4-53
CLASS	530	SUB-CASS
BY	DRAFTSMAN 7.89.15	



APPROVED	O.C. FIG.	SUPERVISOR
BY	CLASS	SUPERCLASS
TECHNICIAN	593	99-15

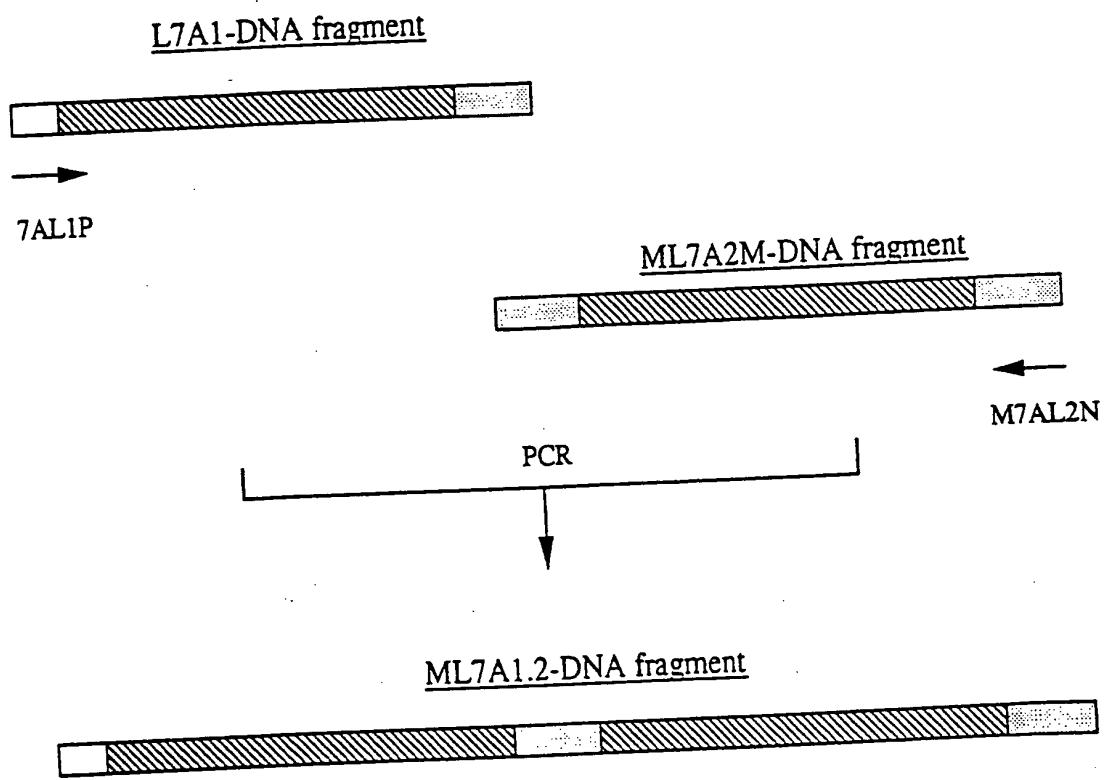


Fig. 16

APPROVED	O.G. FIG.
CLASS	SUBC-ASS
BY	330 393.15
DRAFTSMAN	

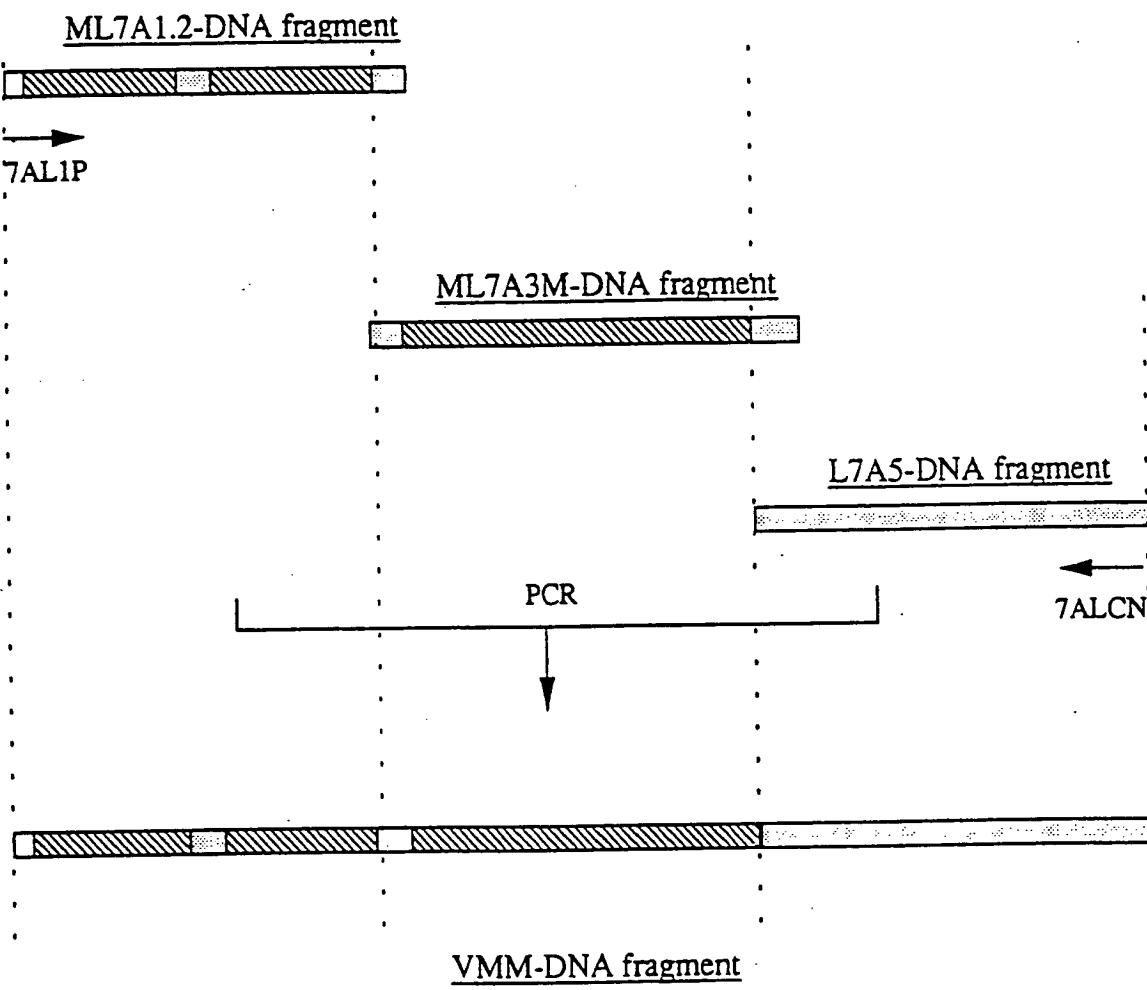


Fig. 17

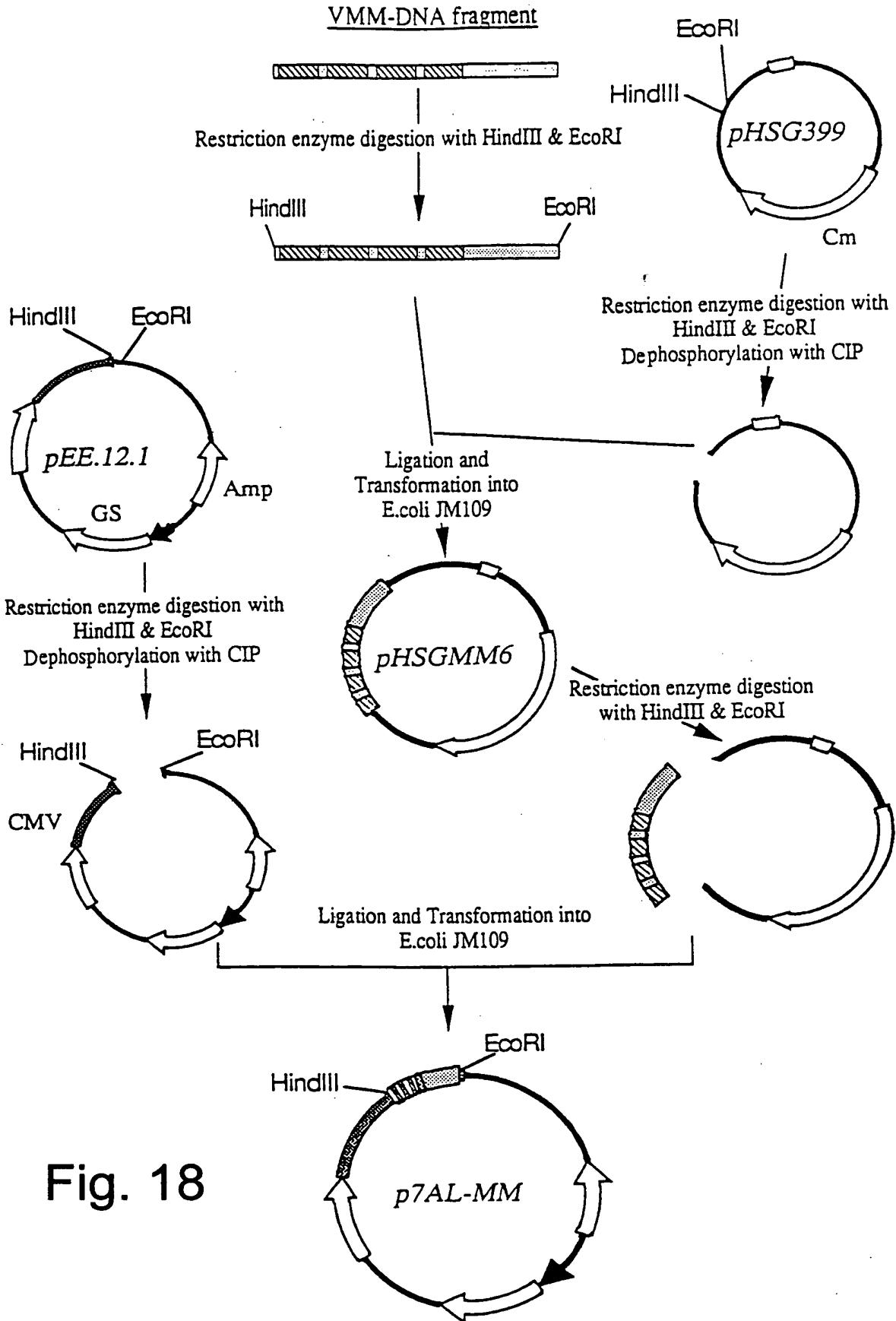


Fig. 18

APPROVED O.G. FIG.

CLASS	SUBCLASS
530	394.15
BY DRAFTSMAN	

2025 RELEASE UNDER E.O. 14176

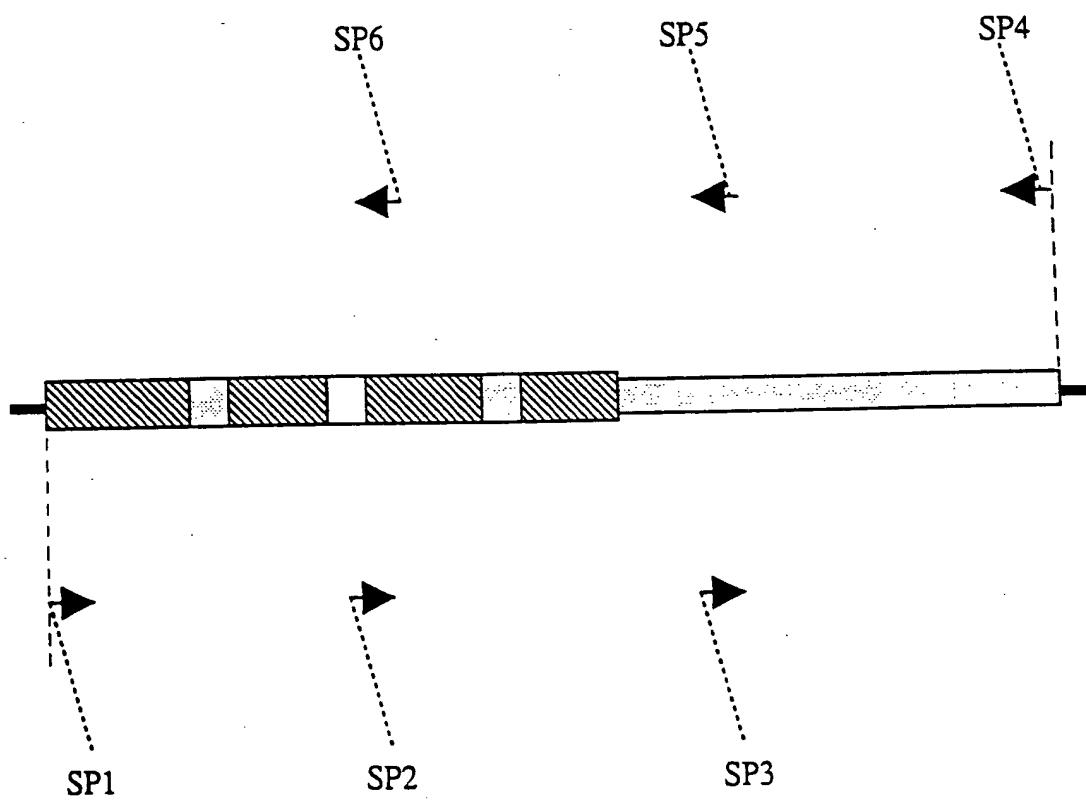


Fig. 19

APPROVED	10/2/82	
BY	CLASS	SUBCLASS
DRAFTSMAN	530	369.15

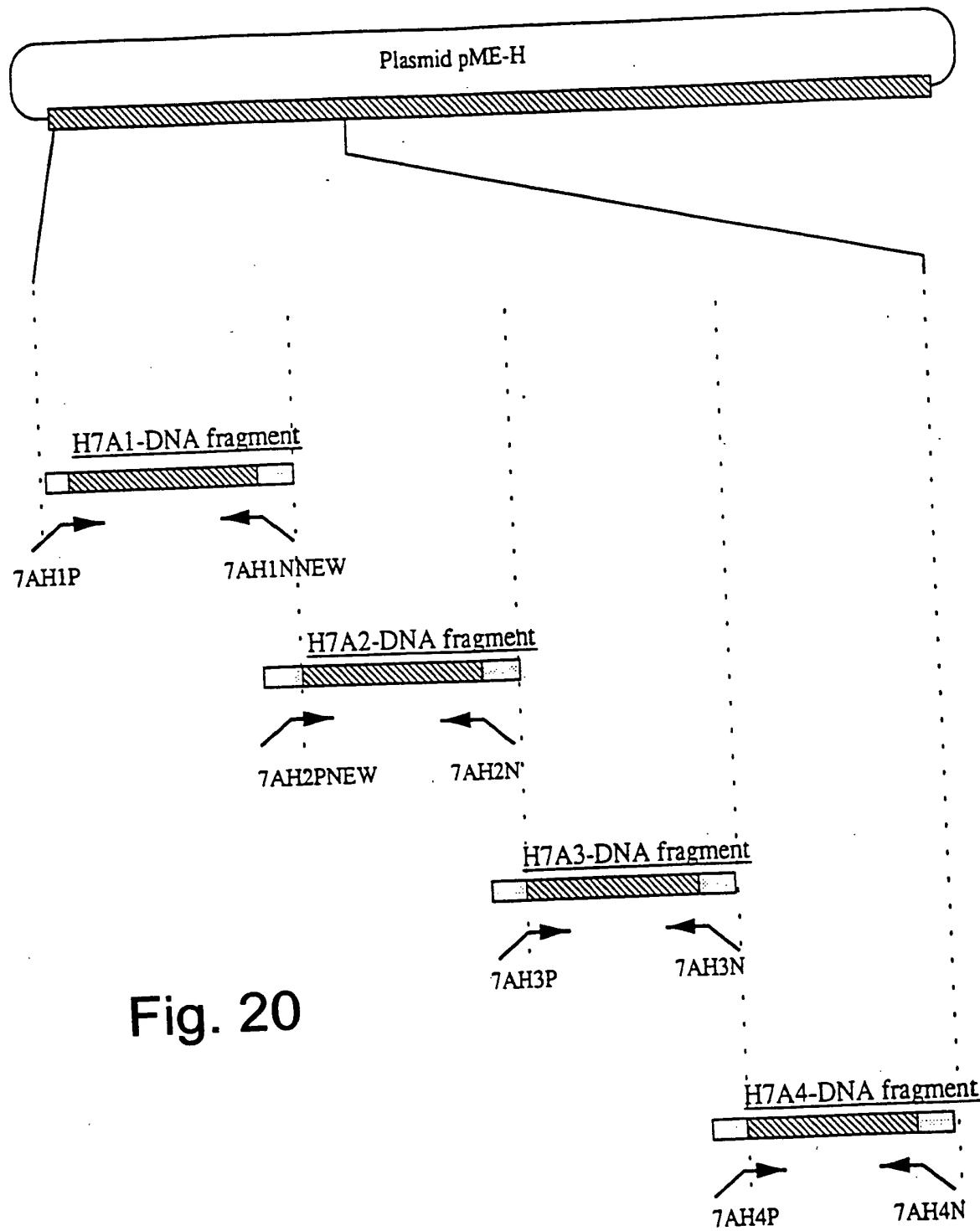


Fig. 20

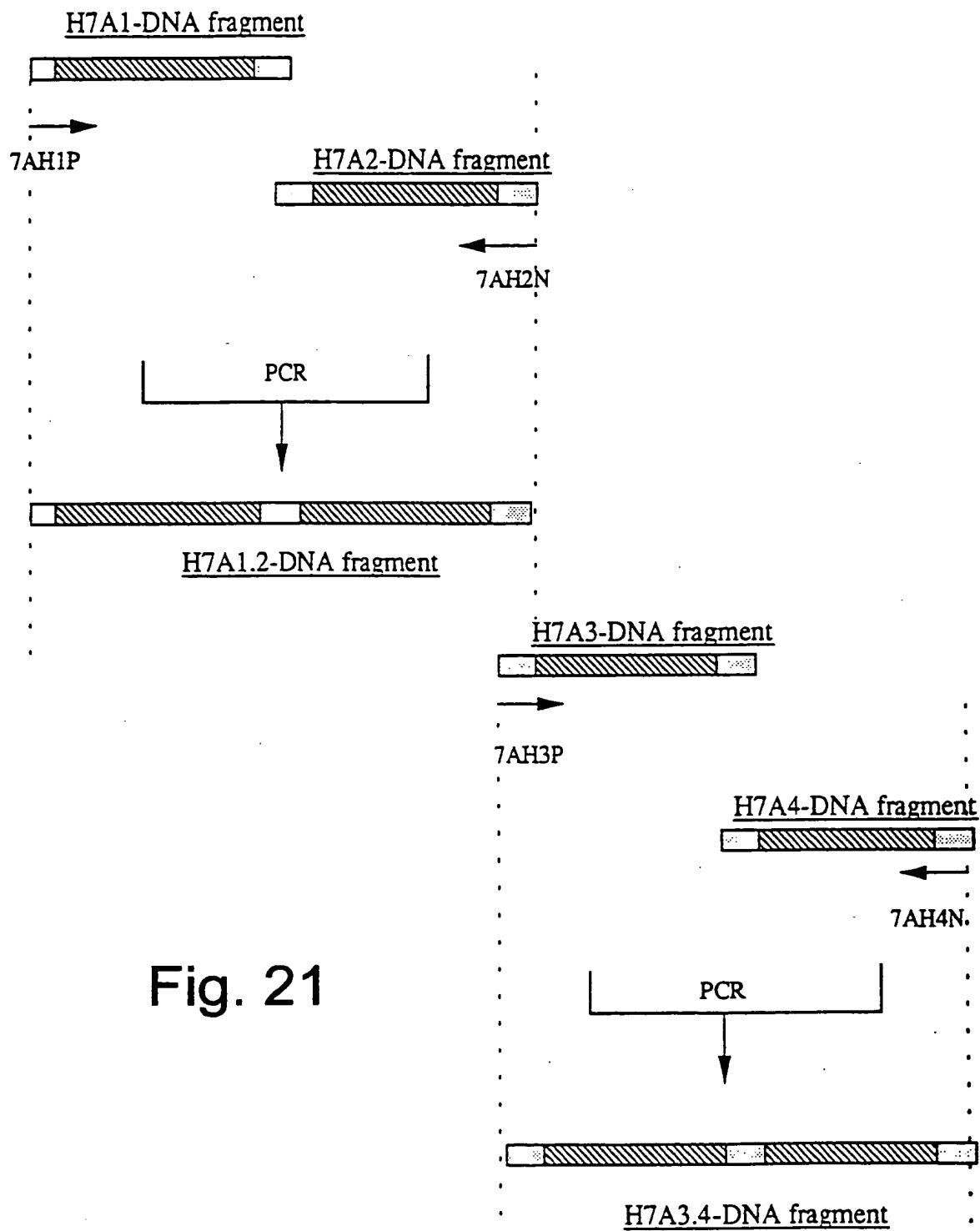
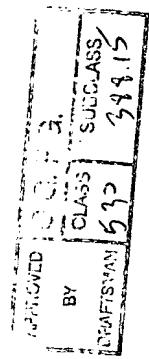


Fig. 21

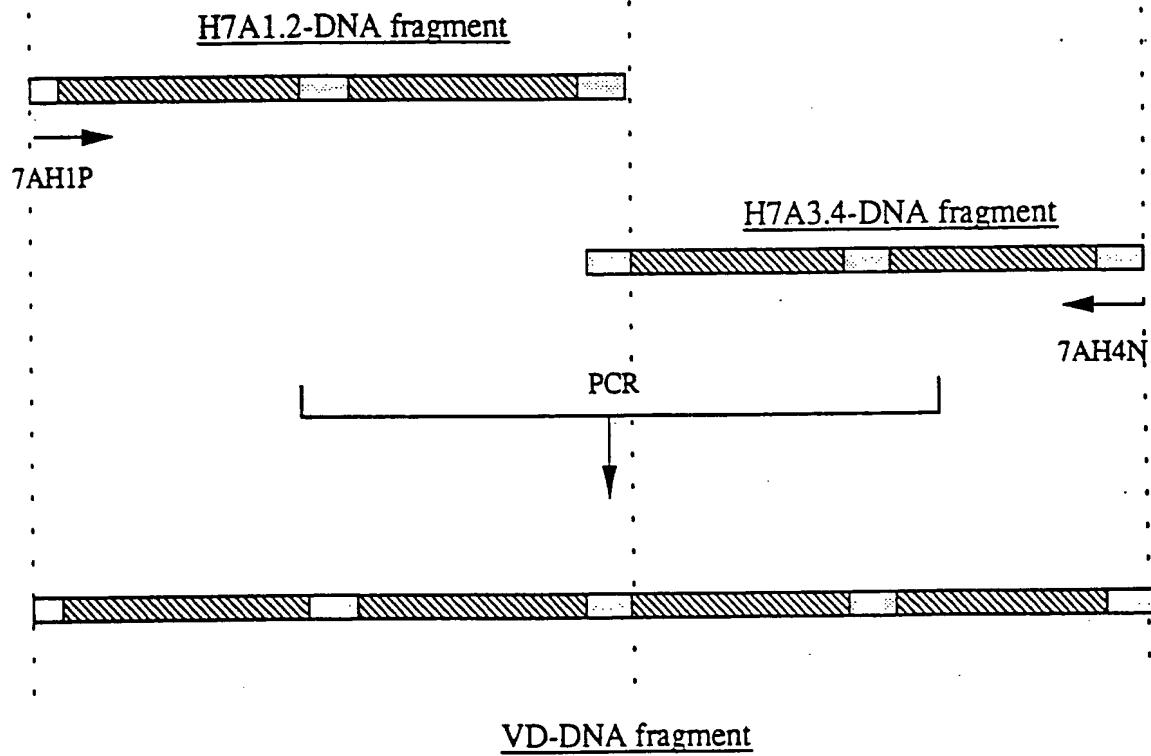
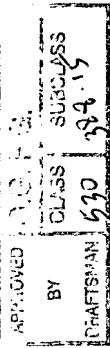


Fig. 22

APPROVED O.G. FIG.
 CLASS SUBCLASS
 5 10 389-15
 BY DRAFTSMAN

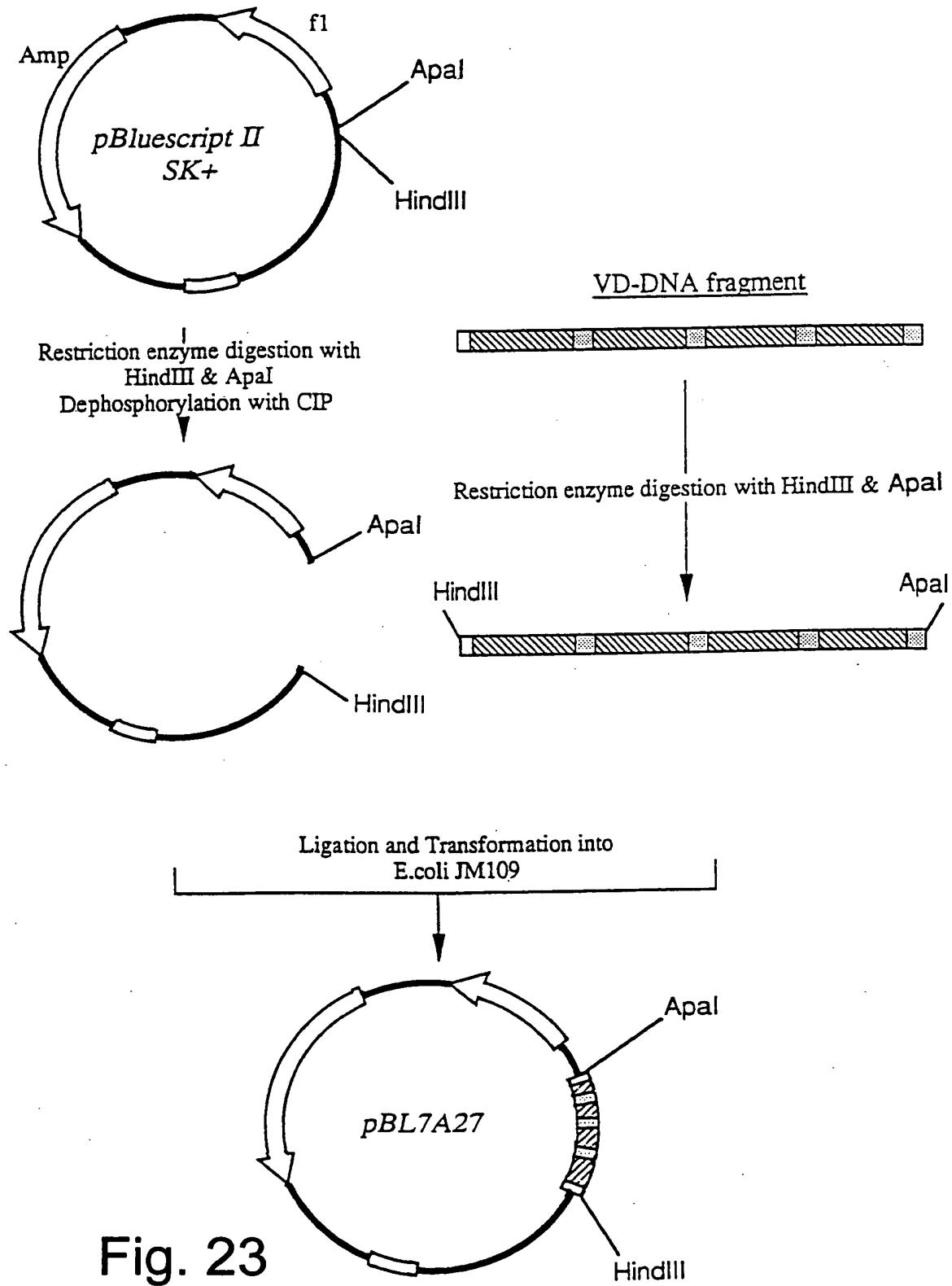


Fig. 23

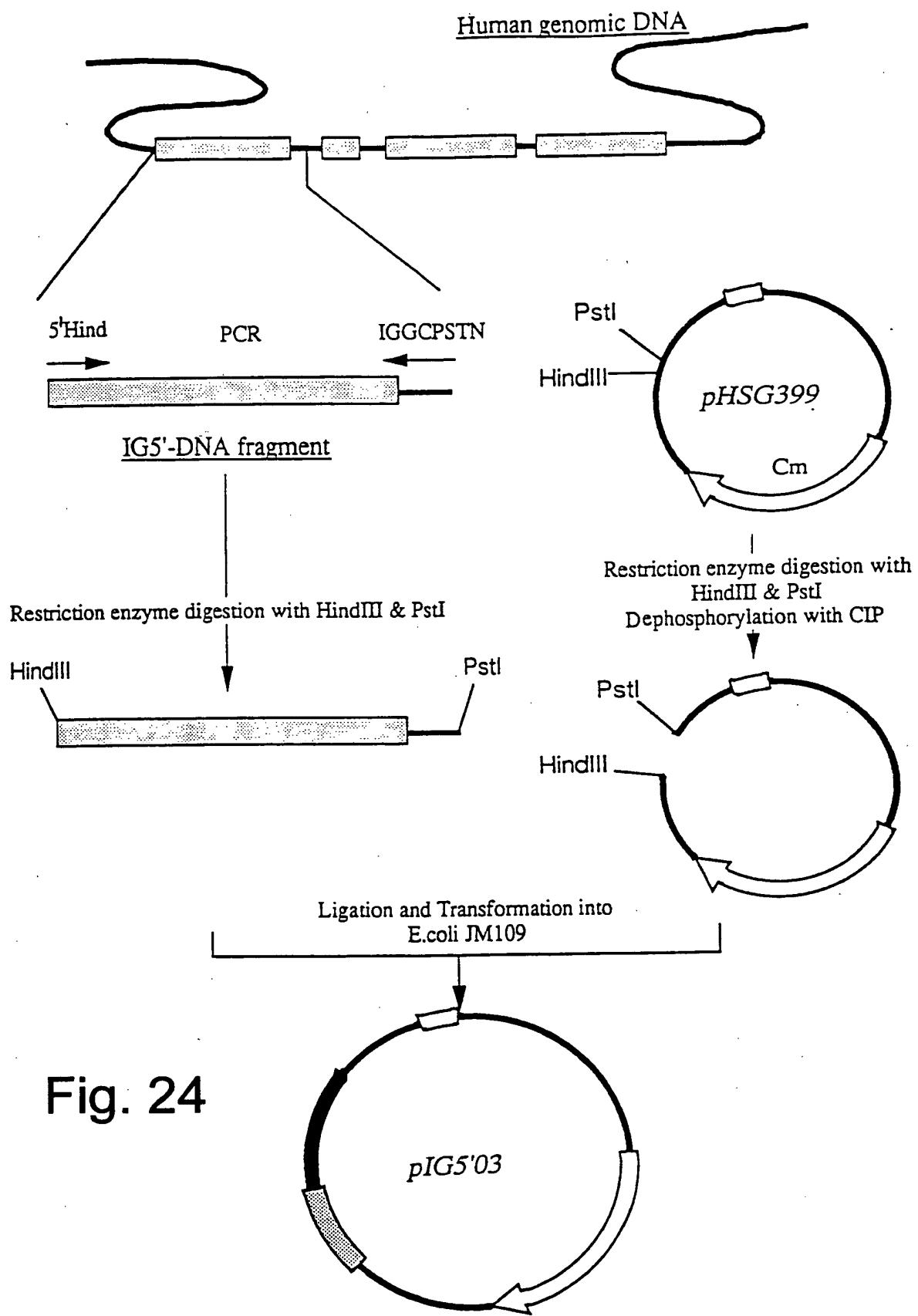
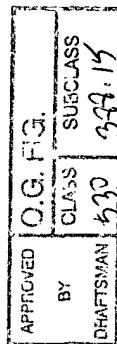
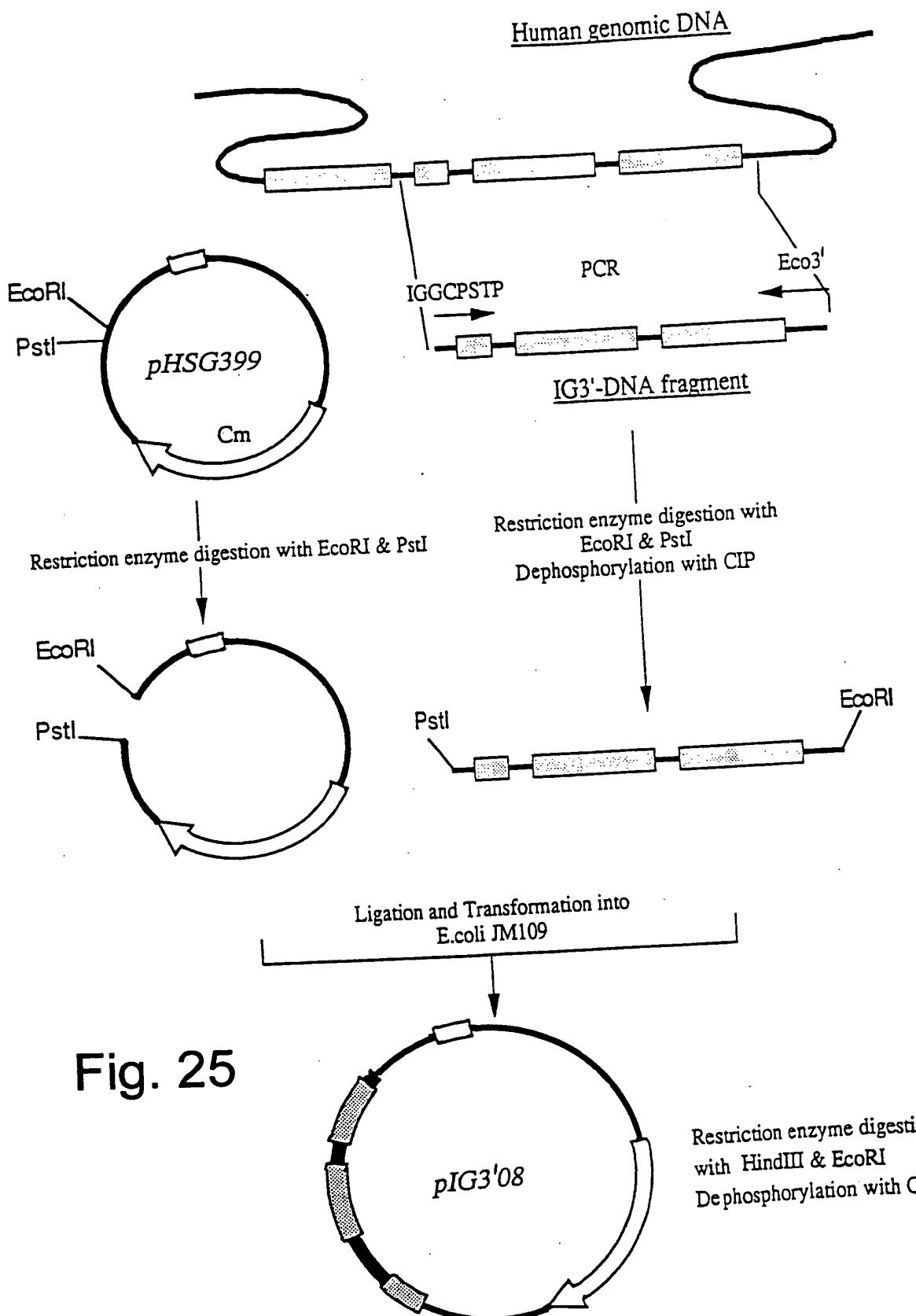


Fig. 24

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

510 319.15



APPROVED	O.G. FIG.
CLASS	SUBCLASS
530	338.15

By
Date PREPARED

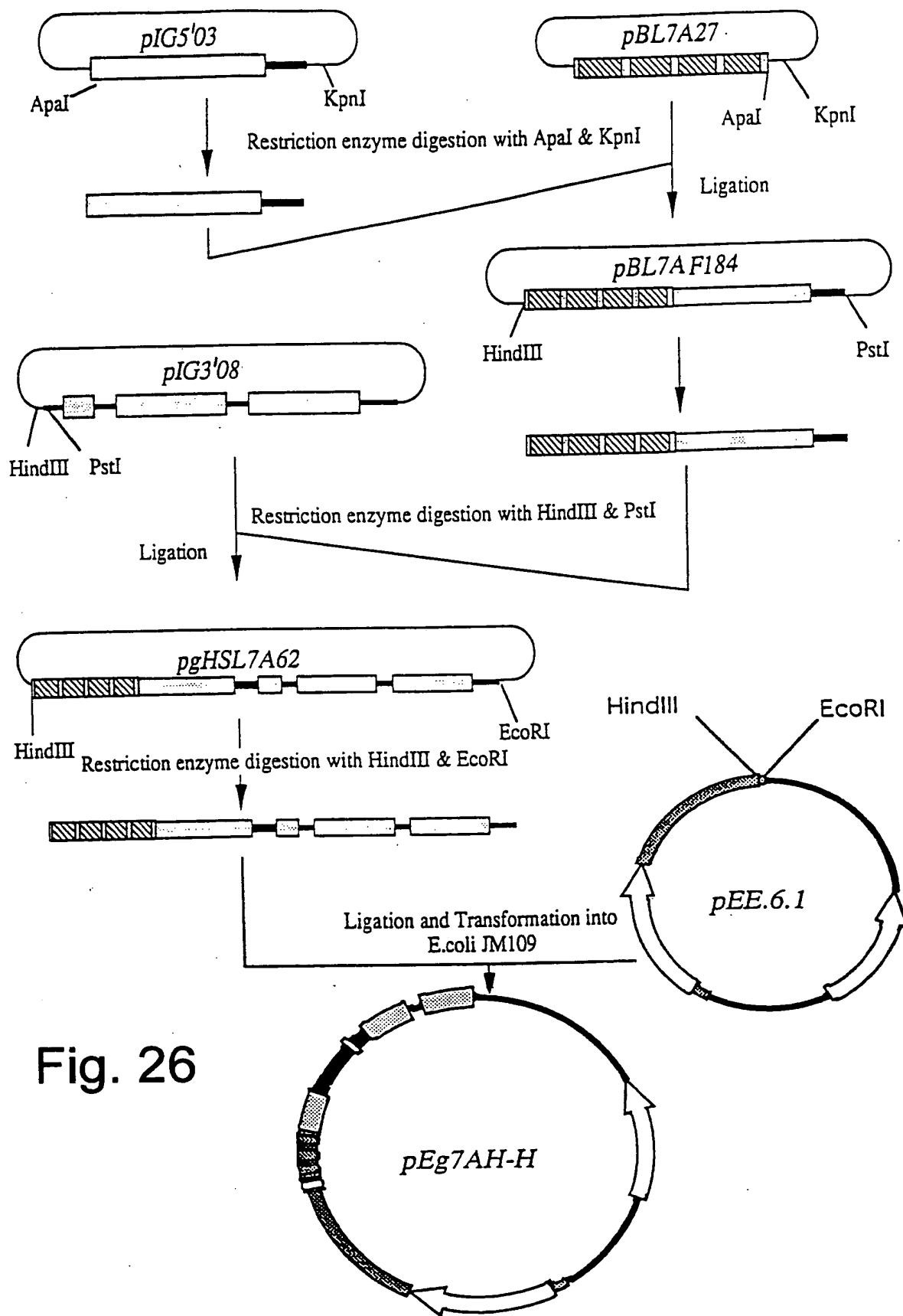


Fig. 26

APPROVED	O.G.H.2.
BY	CLASS
CHARTMAN	630
	SUBCLASS
	389.13

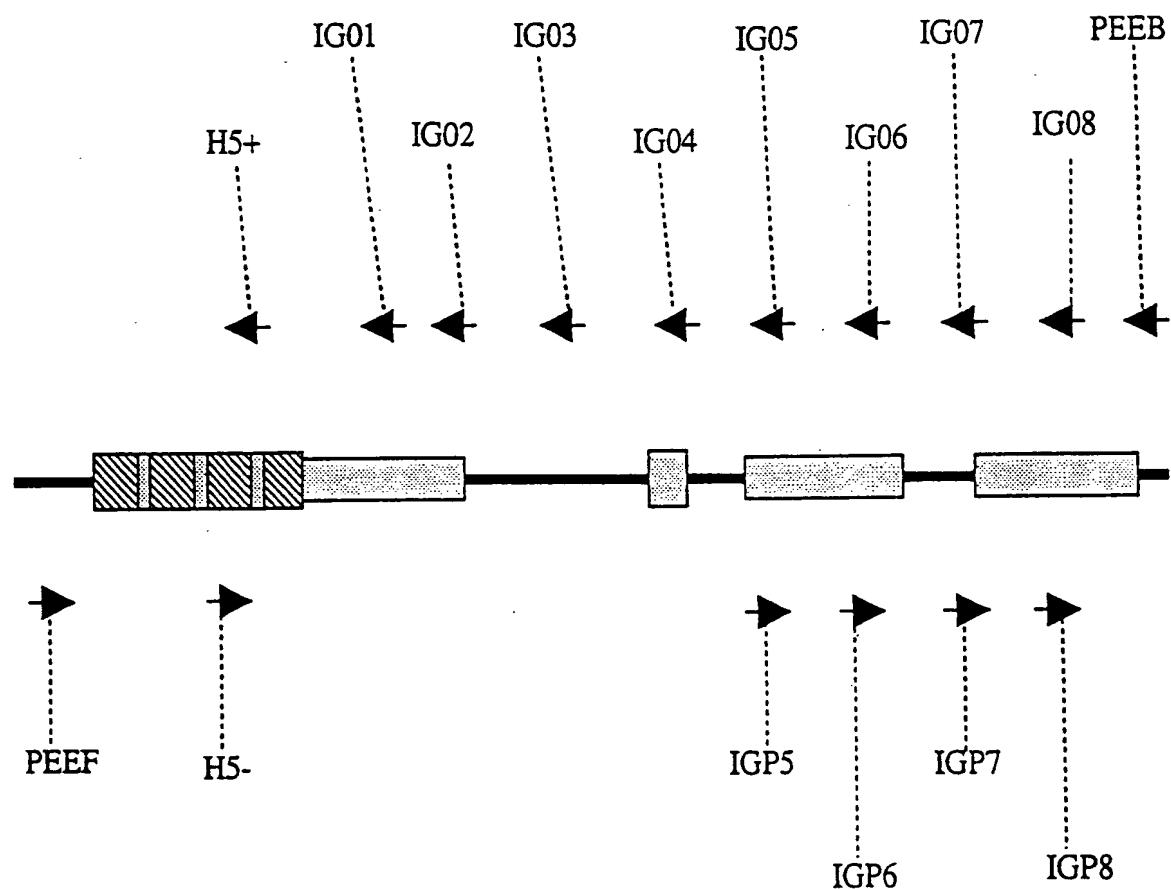


Fig. 27

SEARCHED
INDEXED
CLASS BY
CHARTERMAN
530 SUBCLASS
348.15

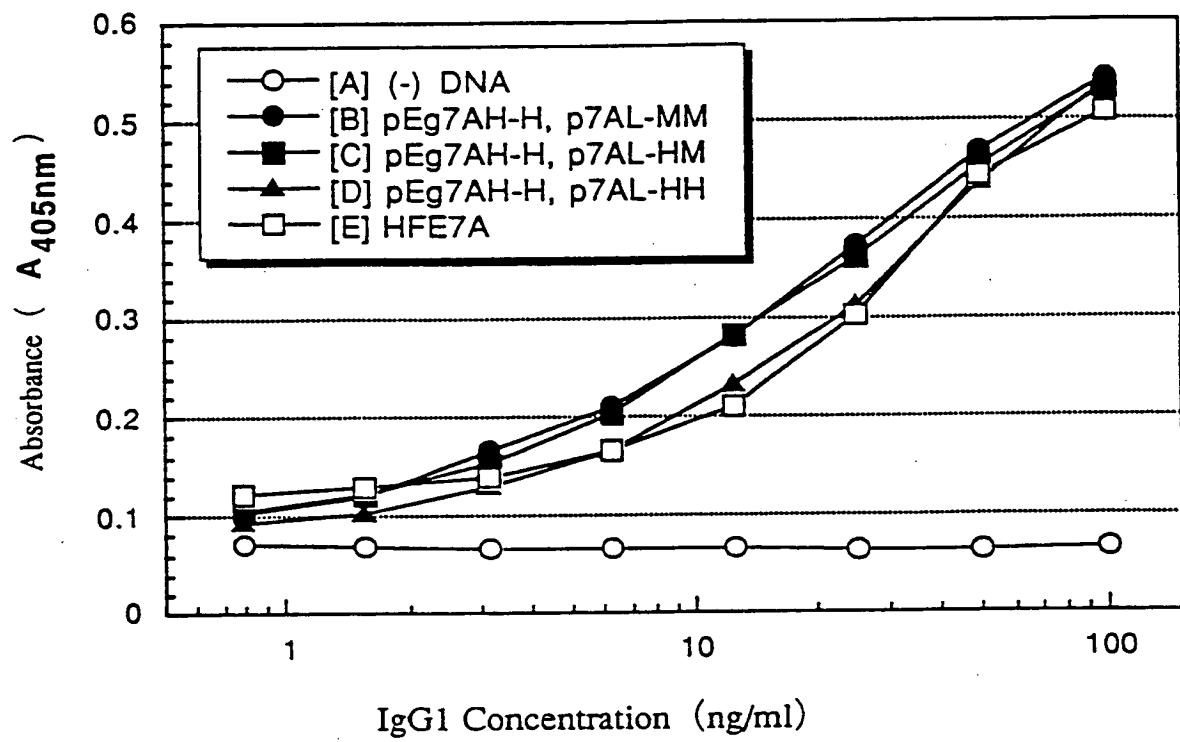


Fig. 28

APPROVED	O.C. F. 2.
BY	CLASS
G. S. ISWARI	SUBCLASS
530	384.15

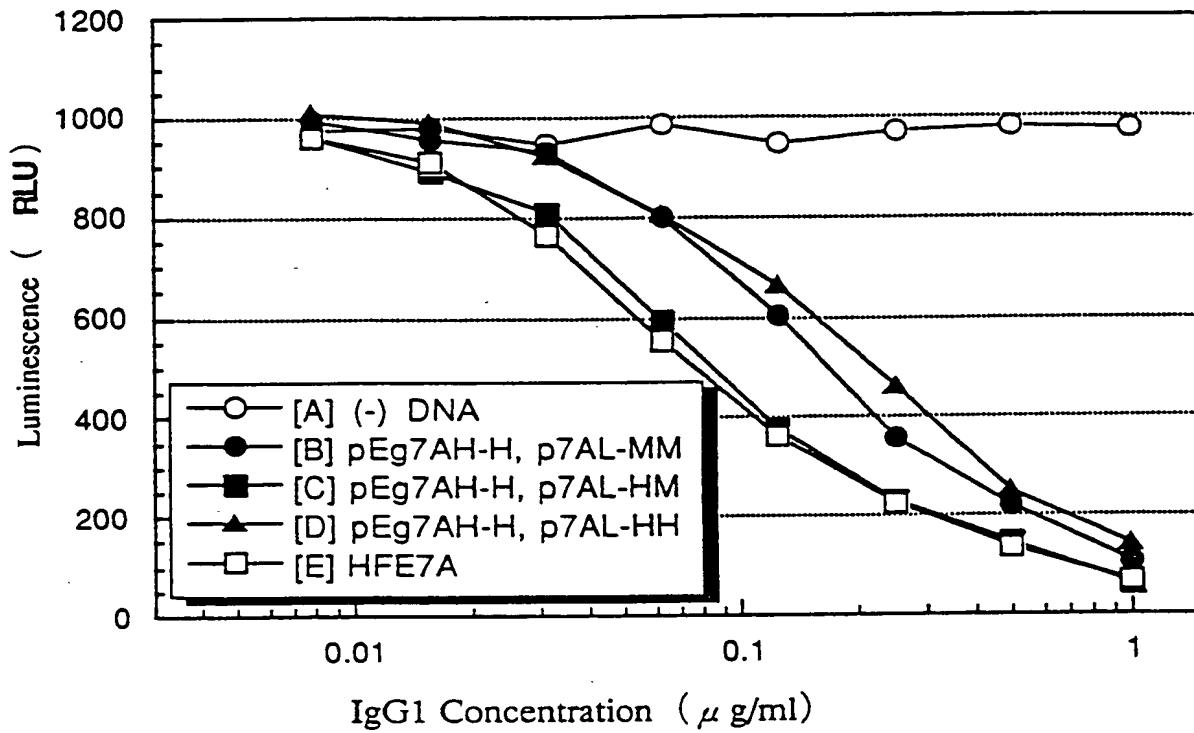


Fig. 29

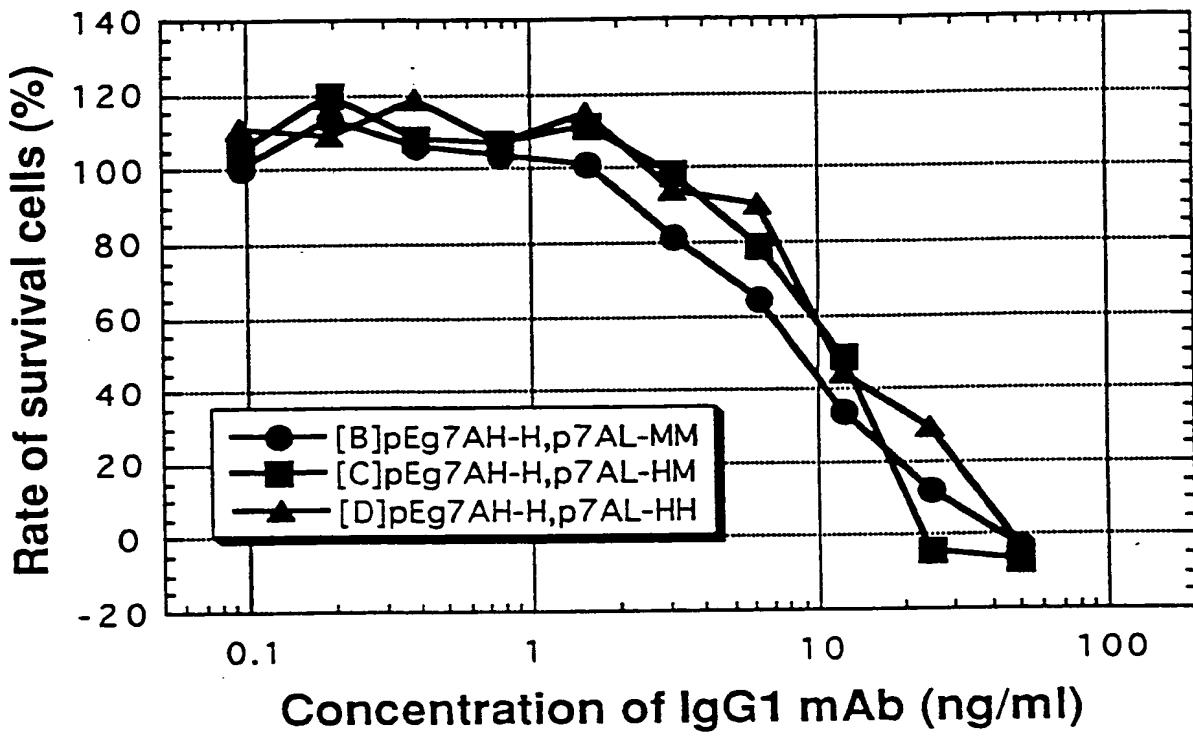
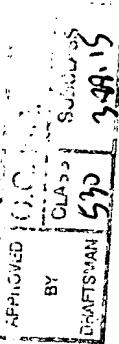


Fig. 30



RECORDED IN THE LIBRARY OF THE STATE OF CALIFORNIA

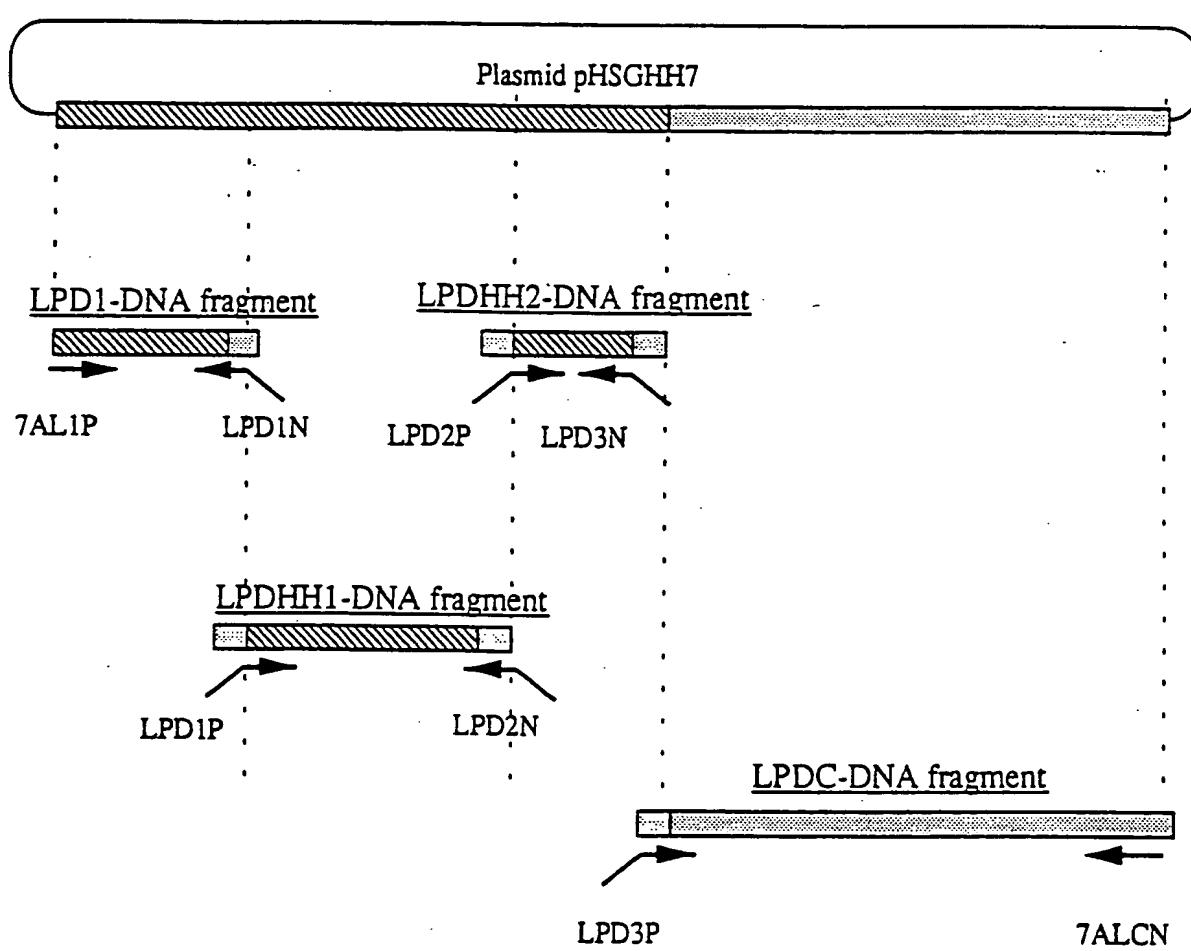


Fig. 31

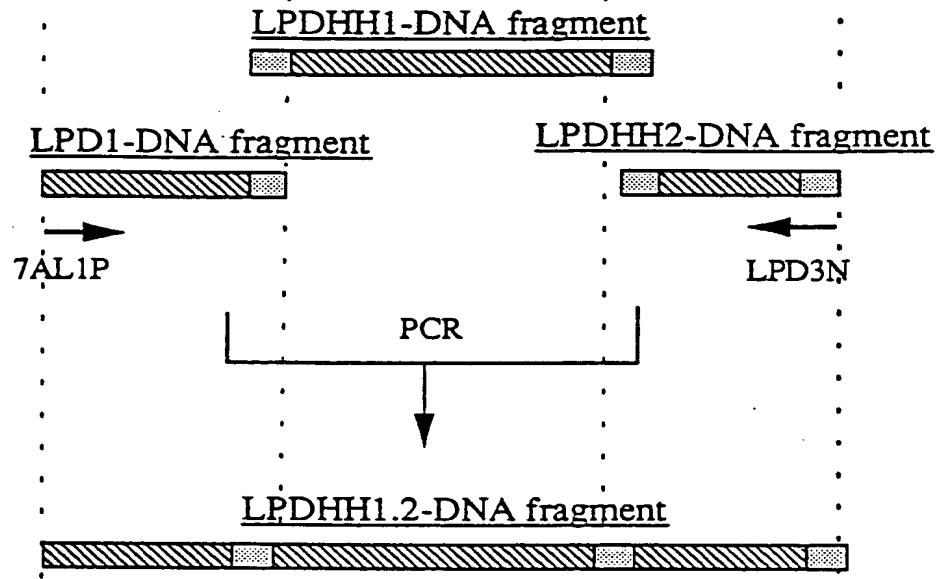


Fig. 32

APPROVED	O.C.H.
BY	CLASS
DRAFTSMAN	SUBCLASS
	530
	388.15

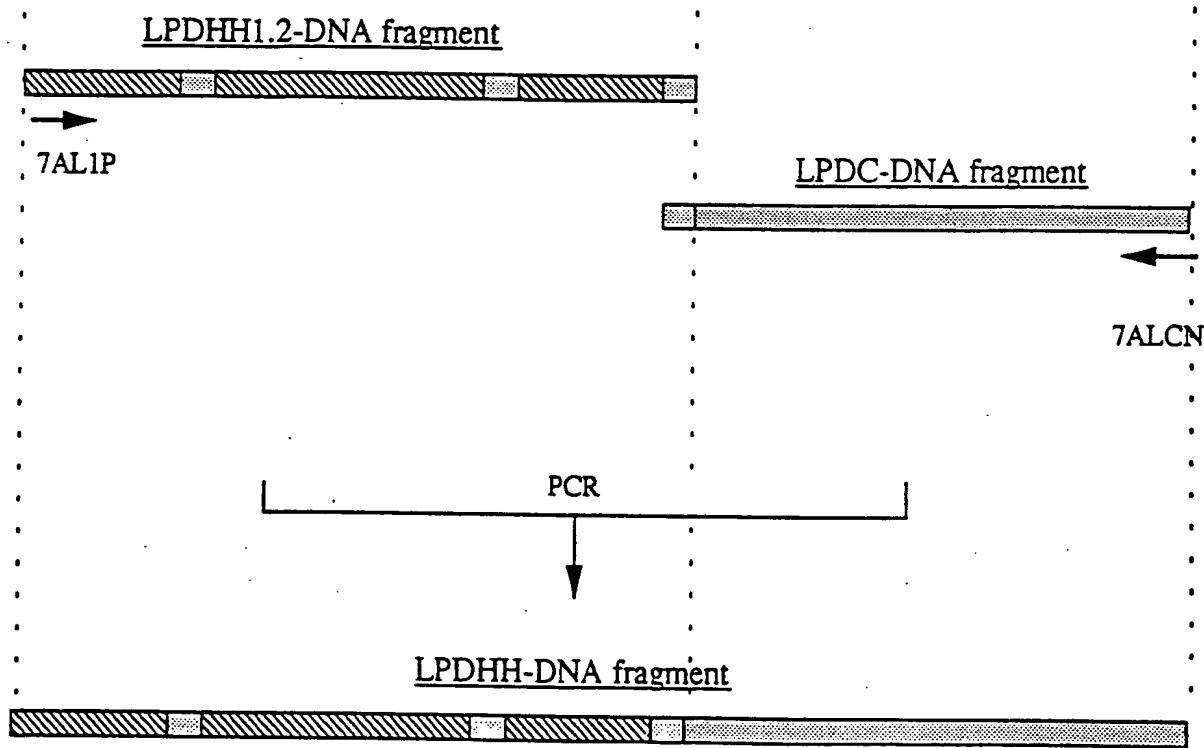


Fig. 33

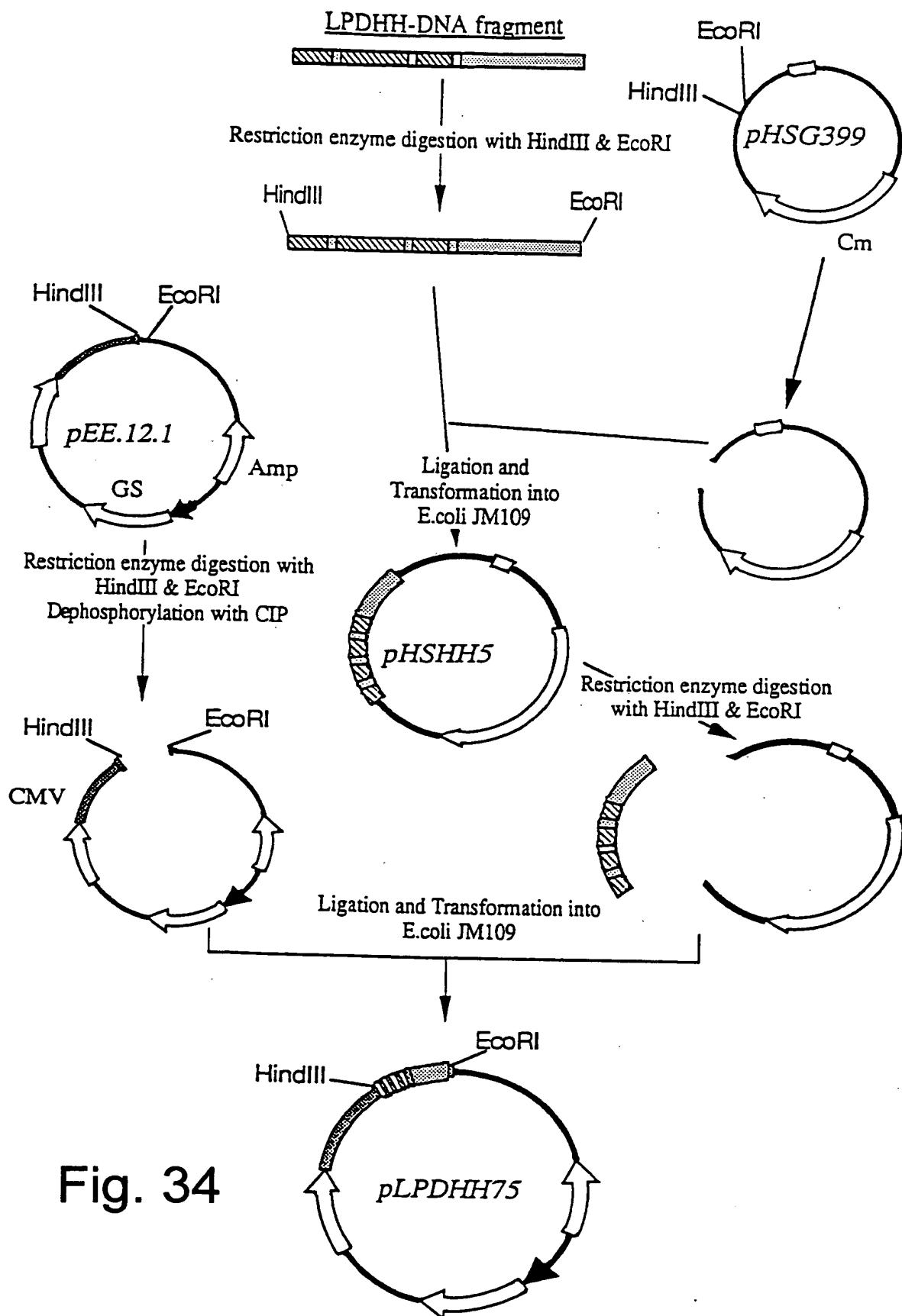


Fig. 34

SEARCHED	INDEXED
SERIALIZED	FILED
CLAS:	SUBCLASS
BY	
DRAFTSMAN	530 388.15

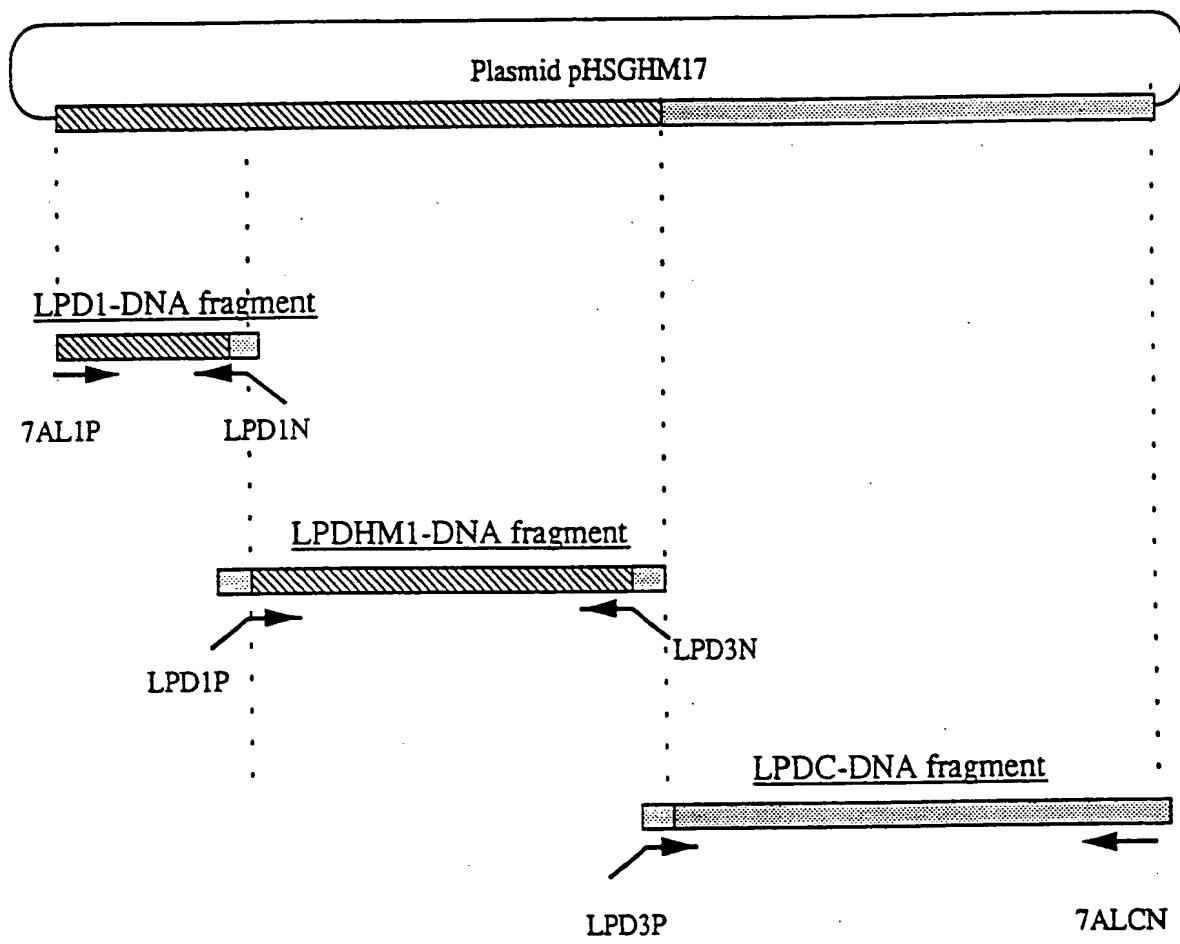


Fig. 35

PHOTOED	O.C. FIG.
BY	
CLASS	SUBCLASS
LAFAYETTE	530 398.15

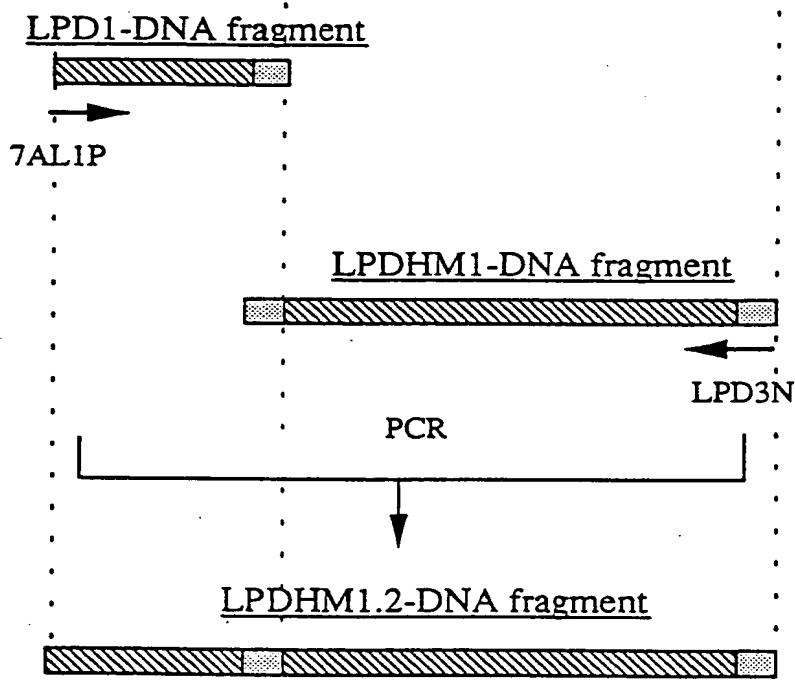


Fig. 36

APPROVED	O.G. P.G.	
BY	CLASS	SUBCLASS
DRAFTSMAN	530	333.15

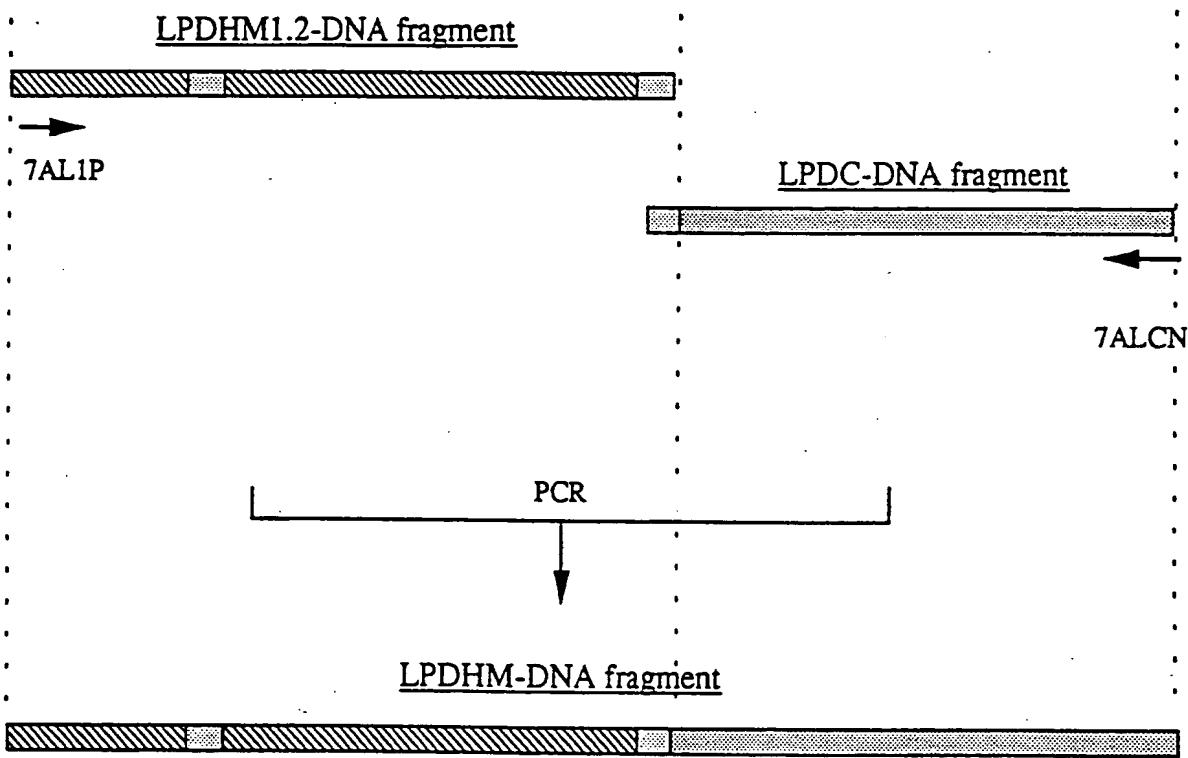
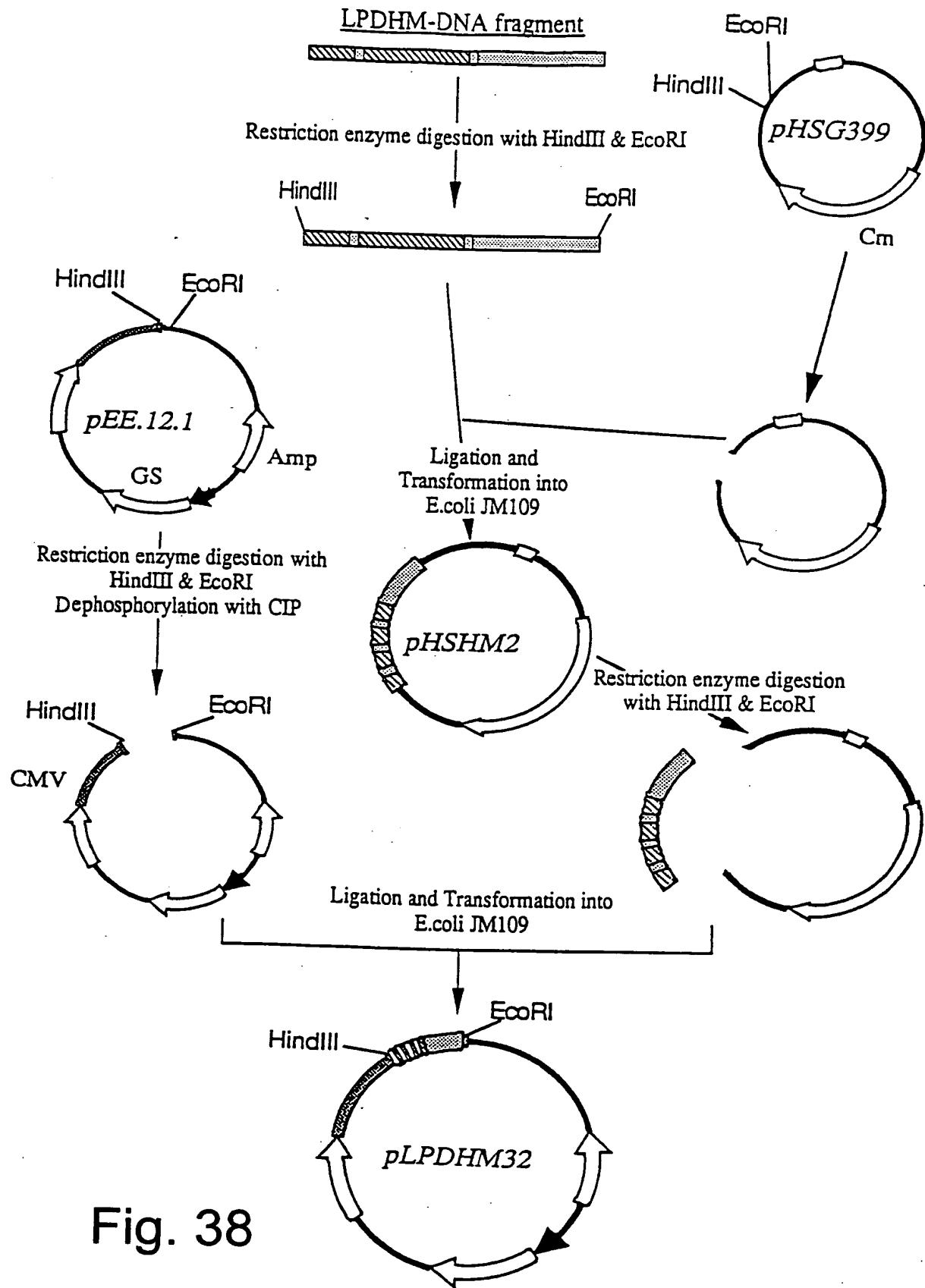
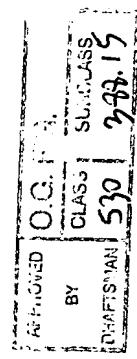


Fig. 37



APPROVED	O.C. F. 3
BY	CLASS
DRAFTSMAN	SUB-CASS 530 389.15

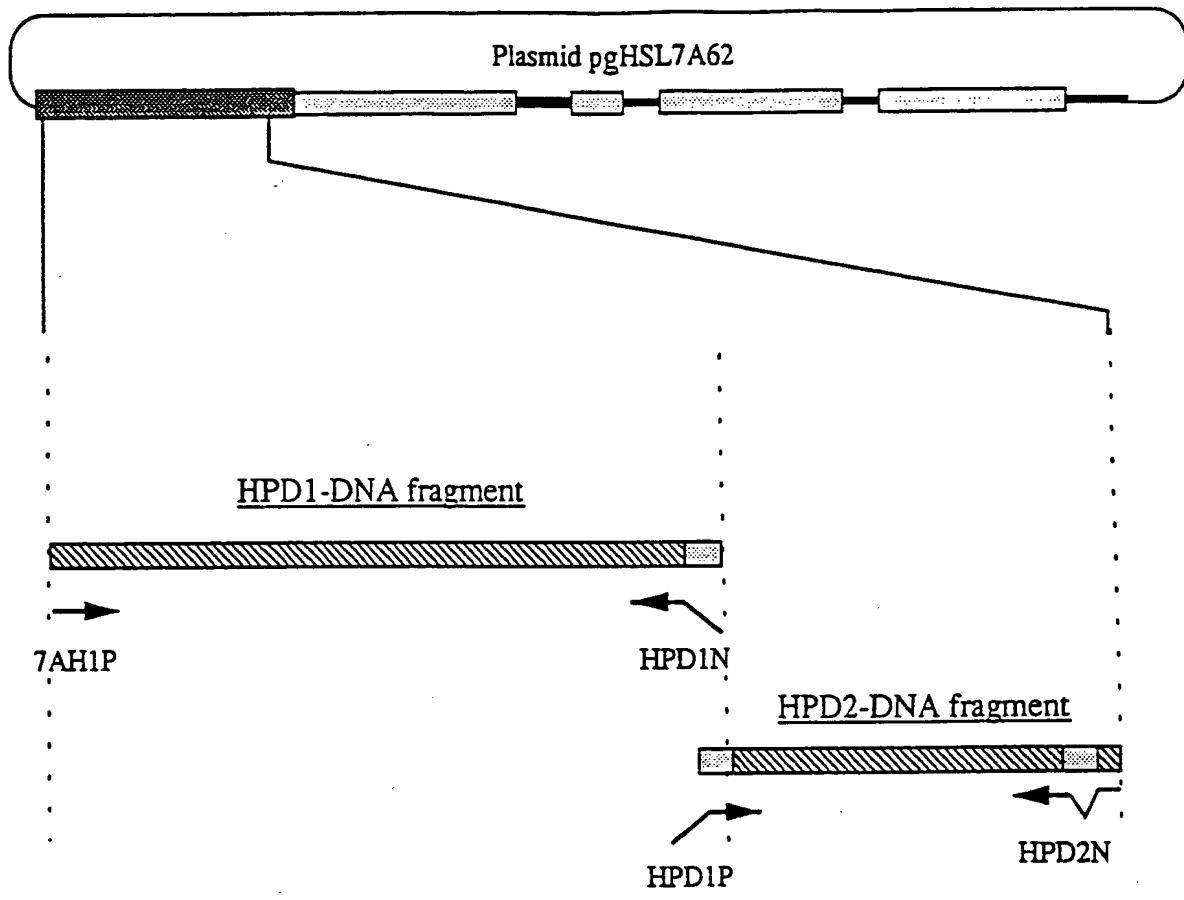


Fig. 39

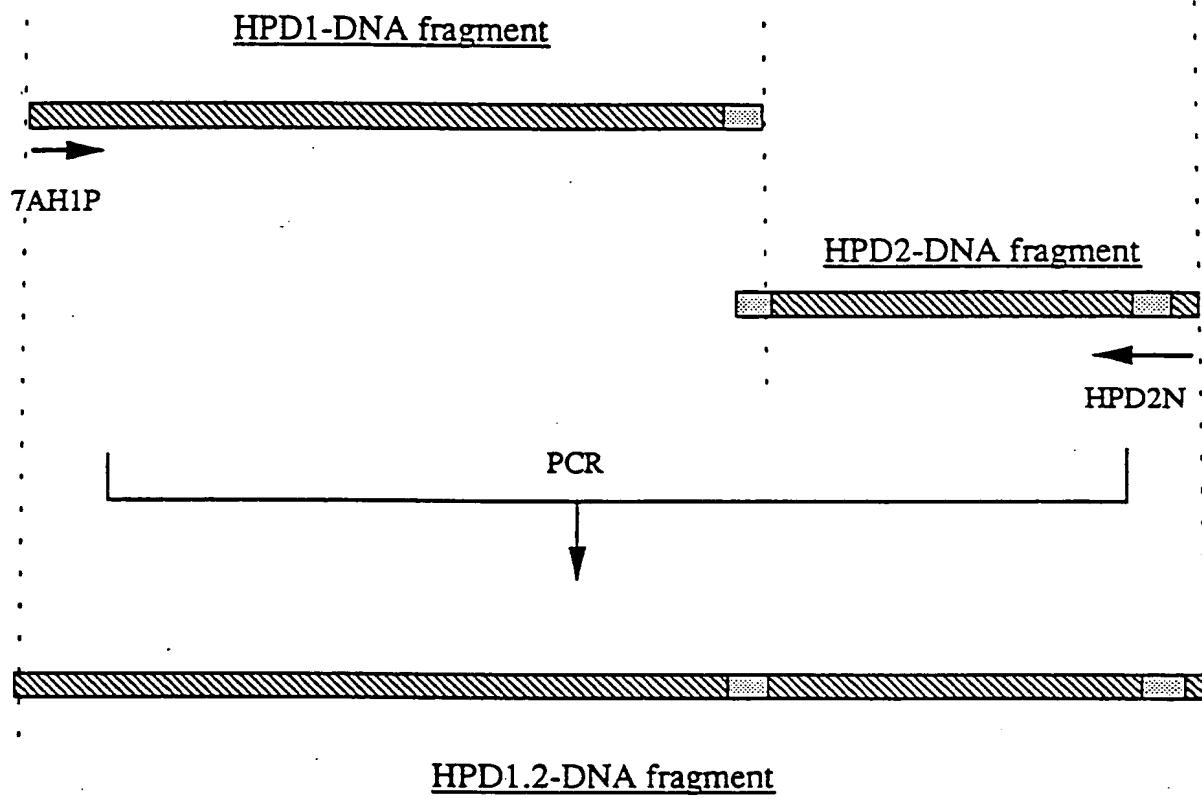


Fig. 40

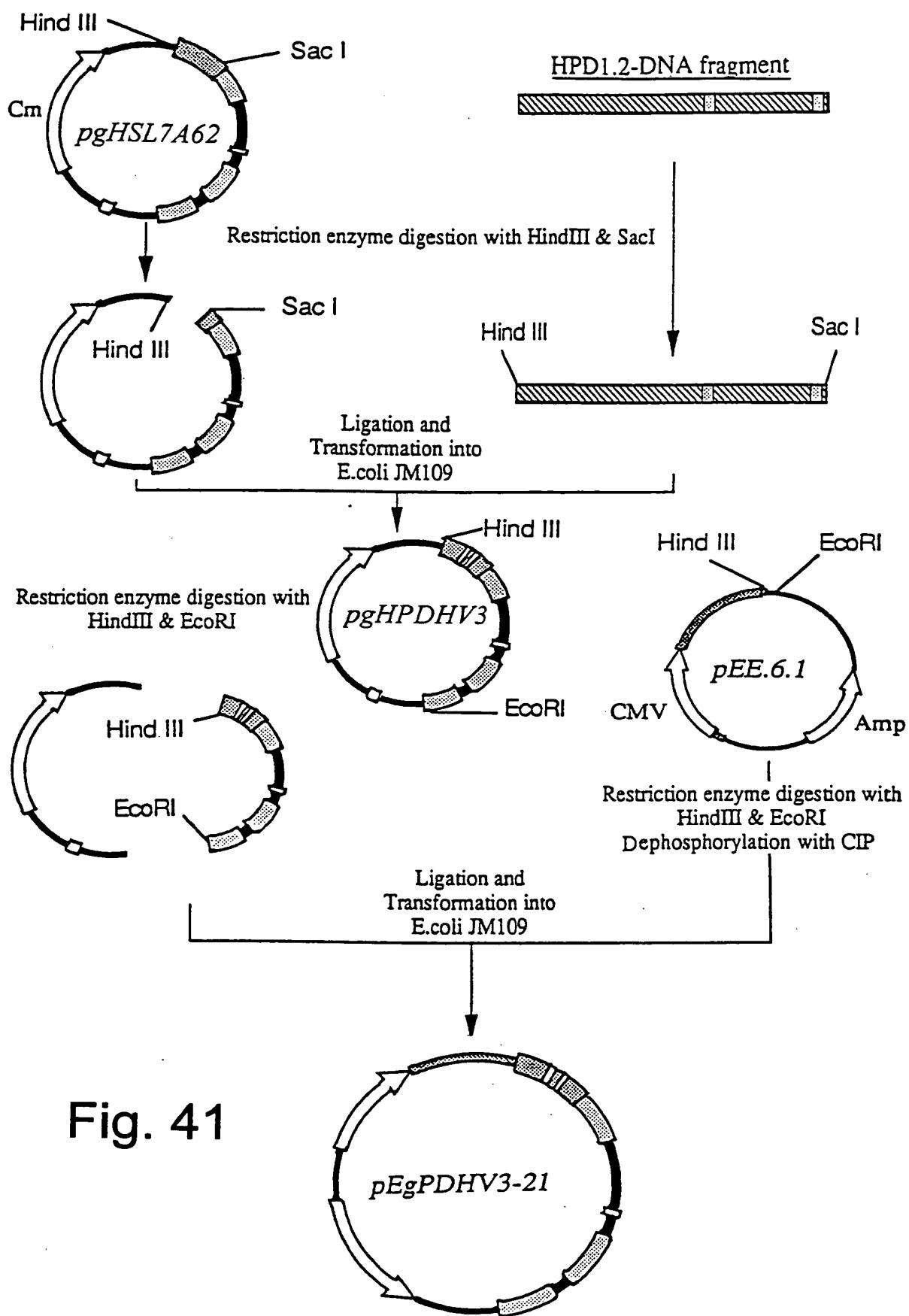


Fig. 41

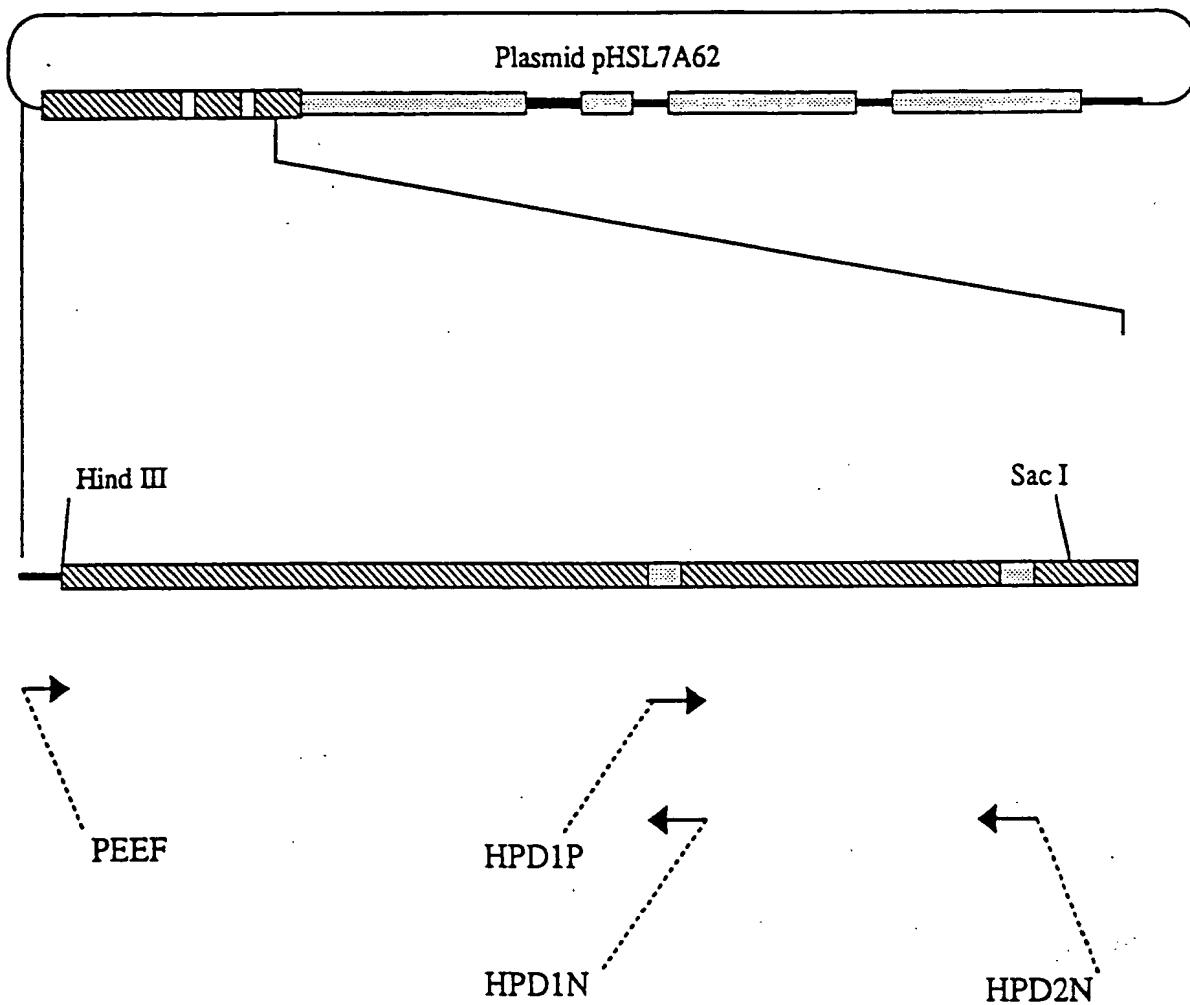


Fig. 42

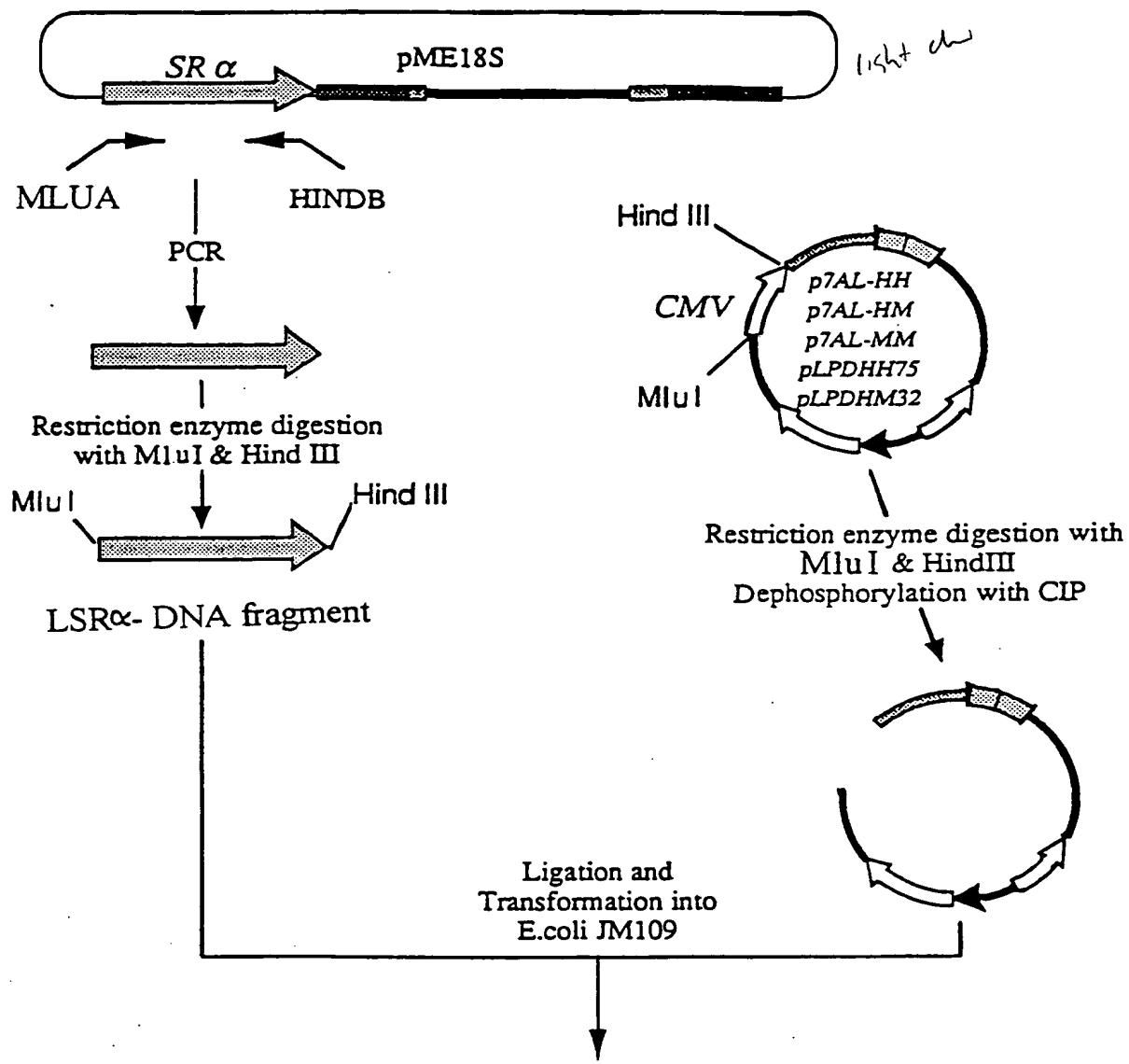
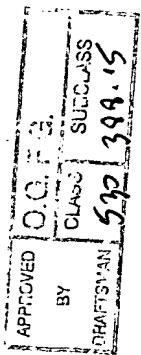
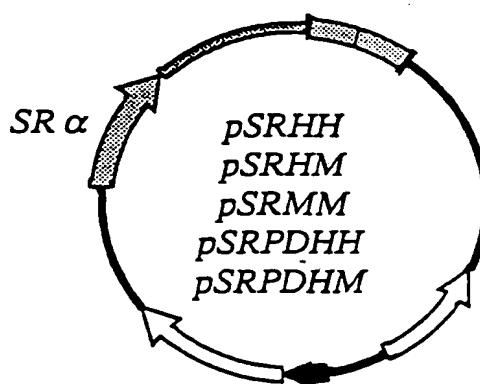


Fig. 43



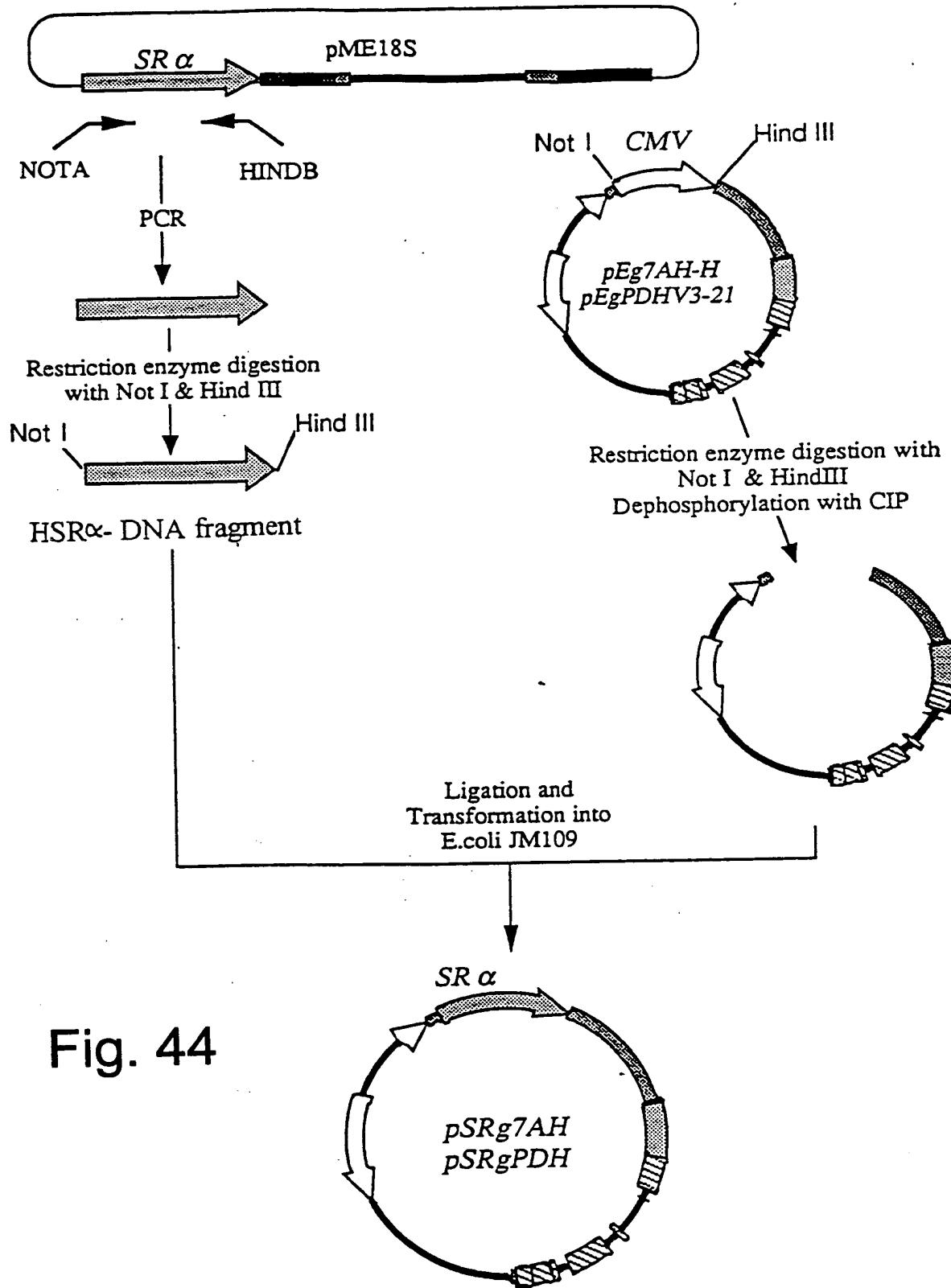
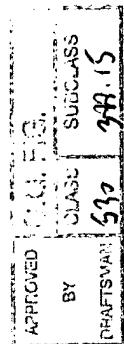


Fig. 44

APPLIED O.C.H.S.
BY CLAS. SUBCLASS
D.F. STAN 570 328.15

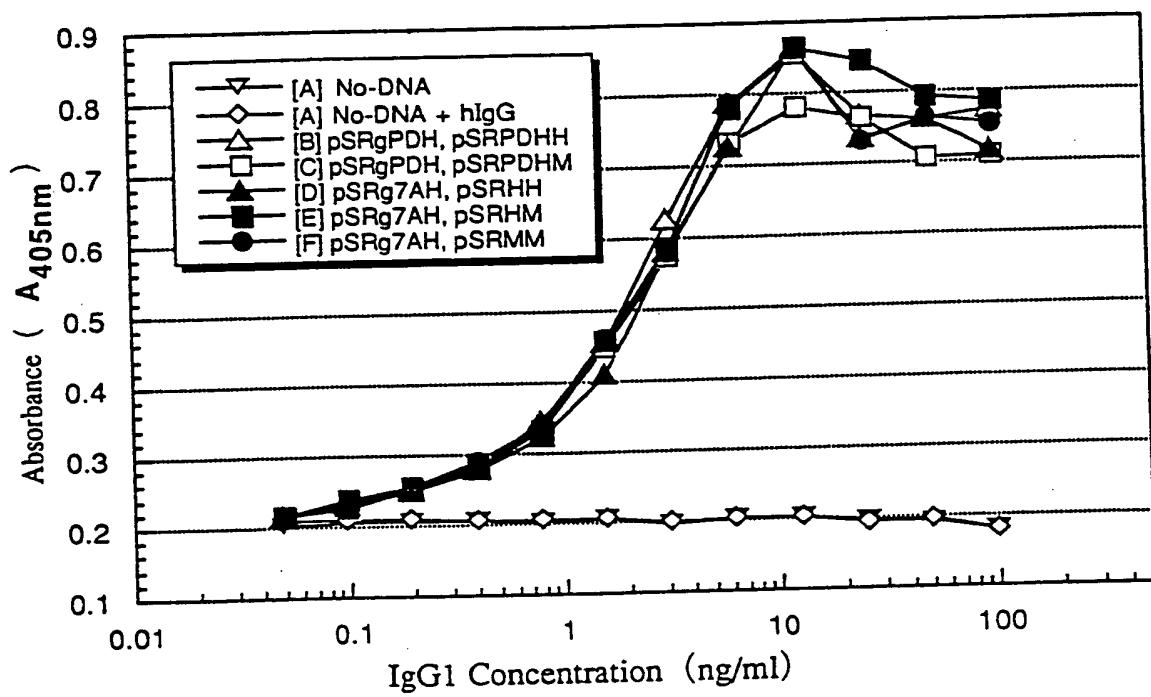


Fig. 45

APPROVED O.C. FIG.
 BY CLASS SUBCLASS
 DRAFTSMAN 532 99.5

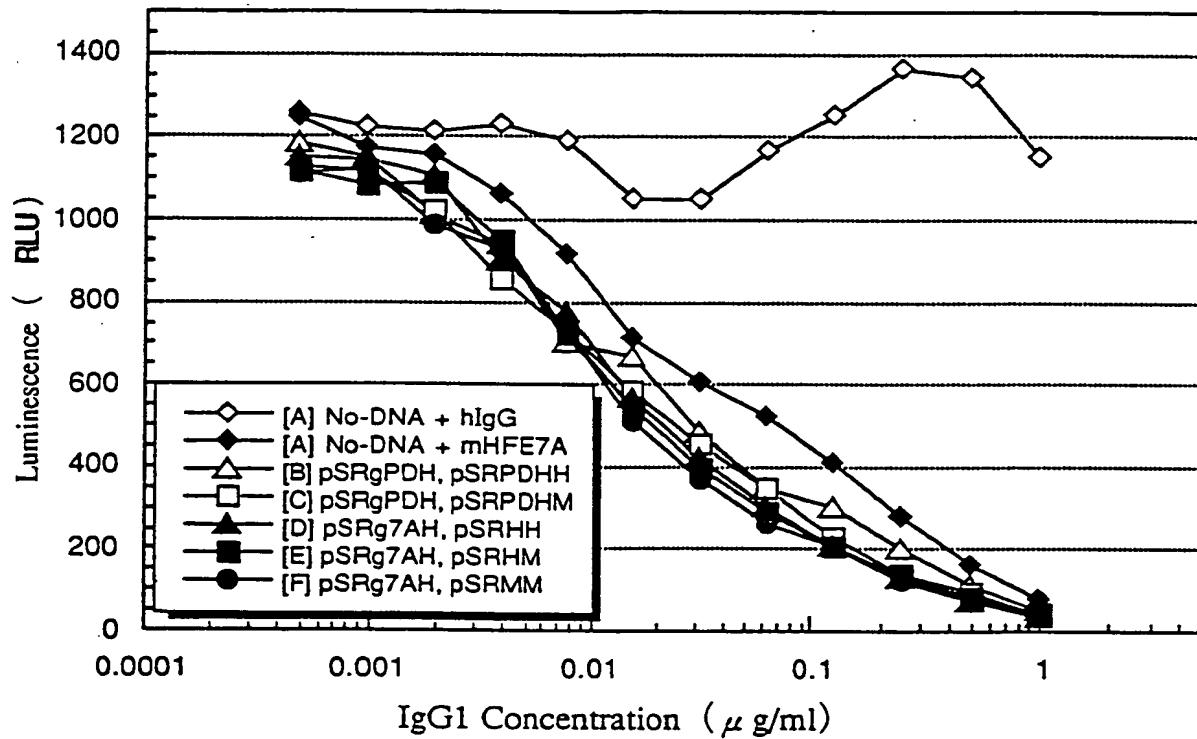


Fig. 46

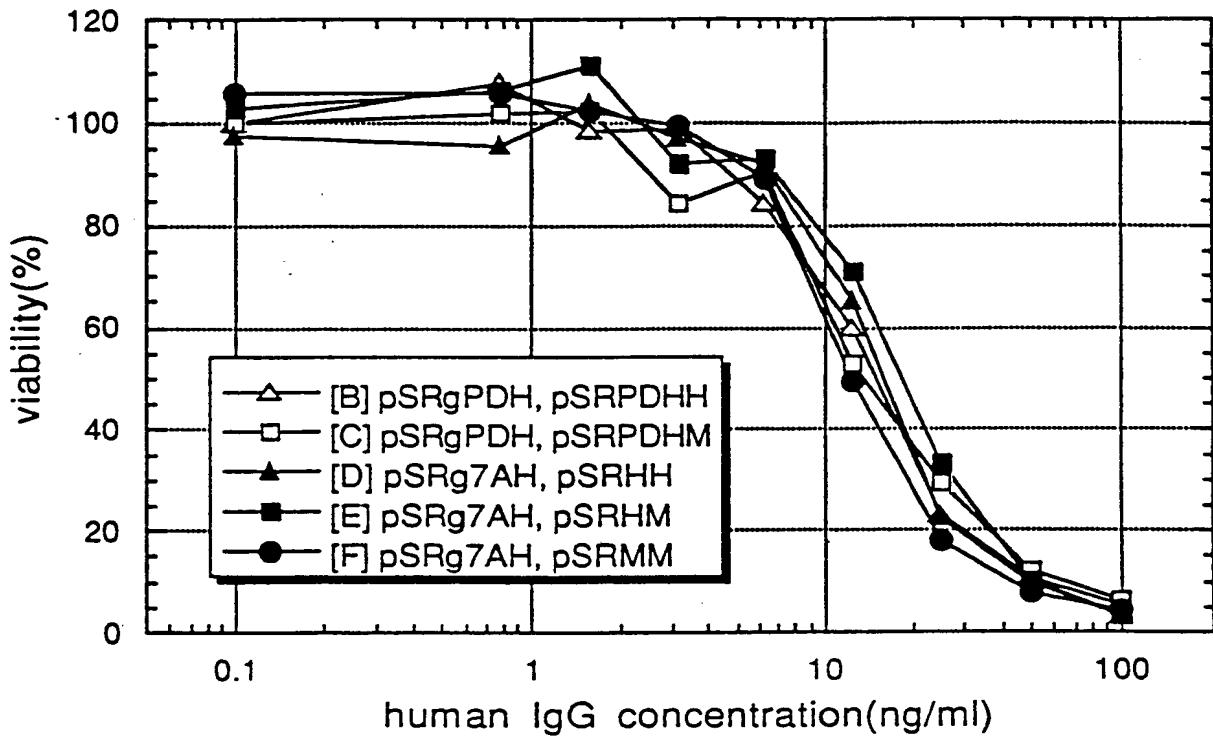
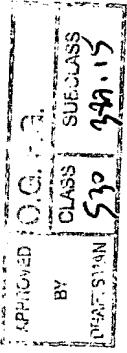


Fig. 47

BY	CLASS	SUB-CLASS
Postman	570	378.15

FRL1

Mouse HFE7A	Asp	Ile Val	Leu Thr	Gln Ser	Pro Ala	Ser Leu	Gly Gln	Arg Ala	Thr Ile	Ser Cys	
Humanized HFE7A(8E10)	Asp	Ile Val	Leu Thr	Gln Ser	Pro Gly	Leu Ser	Pro Gly	Glu Ala	Thr Ile	Ser Cys	
Human Eu	Asp	Ile Gin	Met Thr	Gln Ser	Pro Ser	Thr Leu	Ser Ala	Ser Val	Gly Asp Arg Val	Thr Ile	Cys
Humanized HFE7A(LEU1)	Asp	Ile Val	Leu Thr	Gln Ser	Pro Ser	Ser Leu	Ser Ala	Ser Val	Gly Asp Arg Val	Thr Ile	Cys
Humanized HFE7A(LEU2)	Asp	Ile Val	Leu Thr	Gln Ser	Pro Ser	Ser Leu	Ser Ala	Ser Val	Gly Asp Arg Val	Thr Ile	Cys
Humanized HFE7A(LEU3)	Asp	Ile Val	Leu Thr	Gln Ser	Pro Ser	Ser Leu	Ser Ala	Ser Val	Gly Asp Arg Val	Thr Ile	Cys

FRL2

	40	45	50	(Amino acid No. 47: Ala or Pro, No. 49: Lys or Arg)
Mouse HFE7A	Trp Tyr Gln Gln Lys Pro Pro Gln Pro Lys Leu Ile Tyr			
Humanized HFE7A(8E10)	Trp Tyr Gln Gln Lys Pro Gly Gln Xaa Pro Xaa Leu Ile Tyr			
Human Eu	Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Met Tyr			
Humanized HFE7A(LEU1)	Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr			
Humanized HFE7A(LEU2)	Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Lys Leu Leu Ile Tyr			
Humanized HFE7A(LEU3)	Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr			

ERI

ERIK

105	Phe	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Arg	Ala
106	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys	Arg
107	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Gly
108	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Thr
109	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg
110	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg

Fig. 48

Fig. 49

FRH₁		FRH₂		FRH₃		FRH₄	
1	Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Val Lys Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr	10	15	20	25	30	35
Mouse HFE7A	Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Val Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr						
Humanized HFE7A(8E10)	Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr						
Humanized HFE7A(HEU)	Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr						
Humanized HFE7A(HEU1)	Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr						
Humanized HFE7A(HEU2)	Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr						
Humanized HFE7A(HEU3)	Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr						
Humanized HFE7A(8E10)	Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly	40	45	50	55	60	65
Humanized HFE7A(HEU)	Trp Val Lys Gln Ala Pro Gly Gln Arg Leu Glu Trp Met Gly						
Humanized HFE7A(HEU1)	Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly						
Humanized HFE7A(HEU2)	Trp Val Lys Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly						
Humanized HFE7A(HEU3)	Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly						
Humanized HFE7A(8E10)	Lys Ala Thr Val Asp Thr Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Asp Ser Glu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Cys Ala Arg	70	75	80	85	90	95
Humanized HFE7A(HEU)	Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr Met Gln Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Cys Ala Arg						
Humanized HFE7A(HEU1)	Lys Ala Thr Val Asp Thr Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Cys Ala Arg						
Humanized HFE7A(HEU2)	Lys Ala Thr Val Asp Thr Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Cys Ala Arg						
Humanized HFE7A(HEU3)	Lys Ala Thr Val Asp Thr Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Cys Ala Arg						

Success
570 343.15

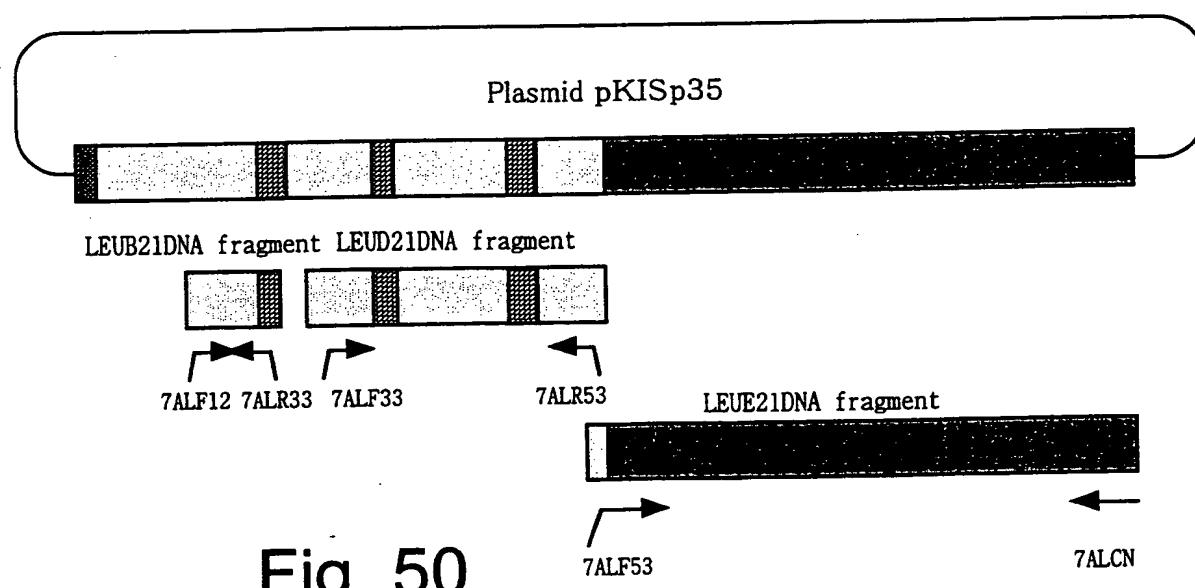
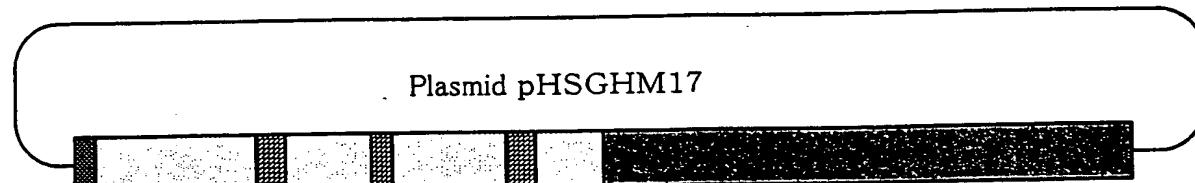


Fig. 50

Archived On: 12/17/2013
By: [redacted]
Class: [redacted]
Subclass: [redacted]
Category: 530 331-19

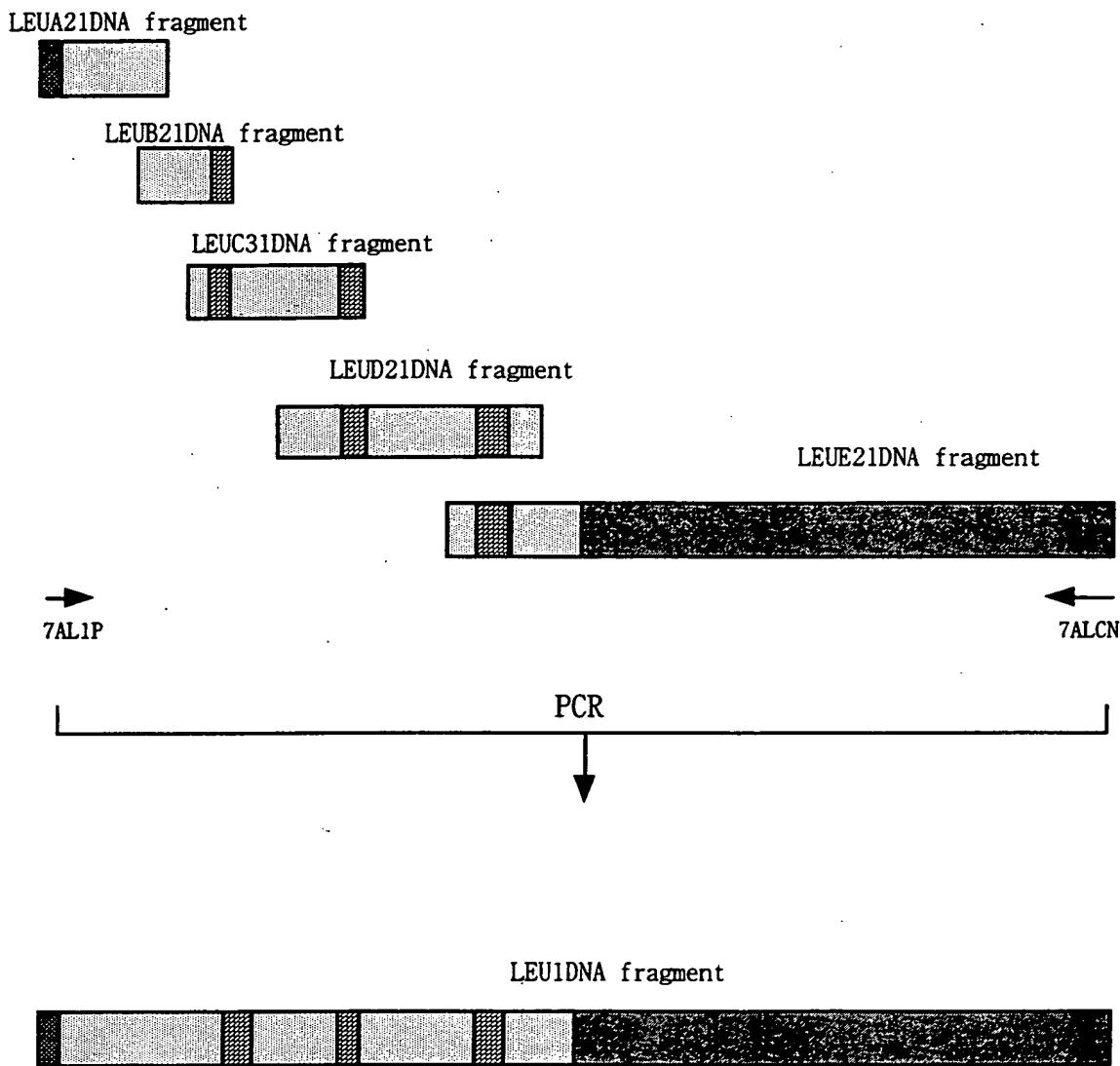


Fig. 51

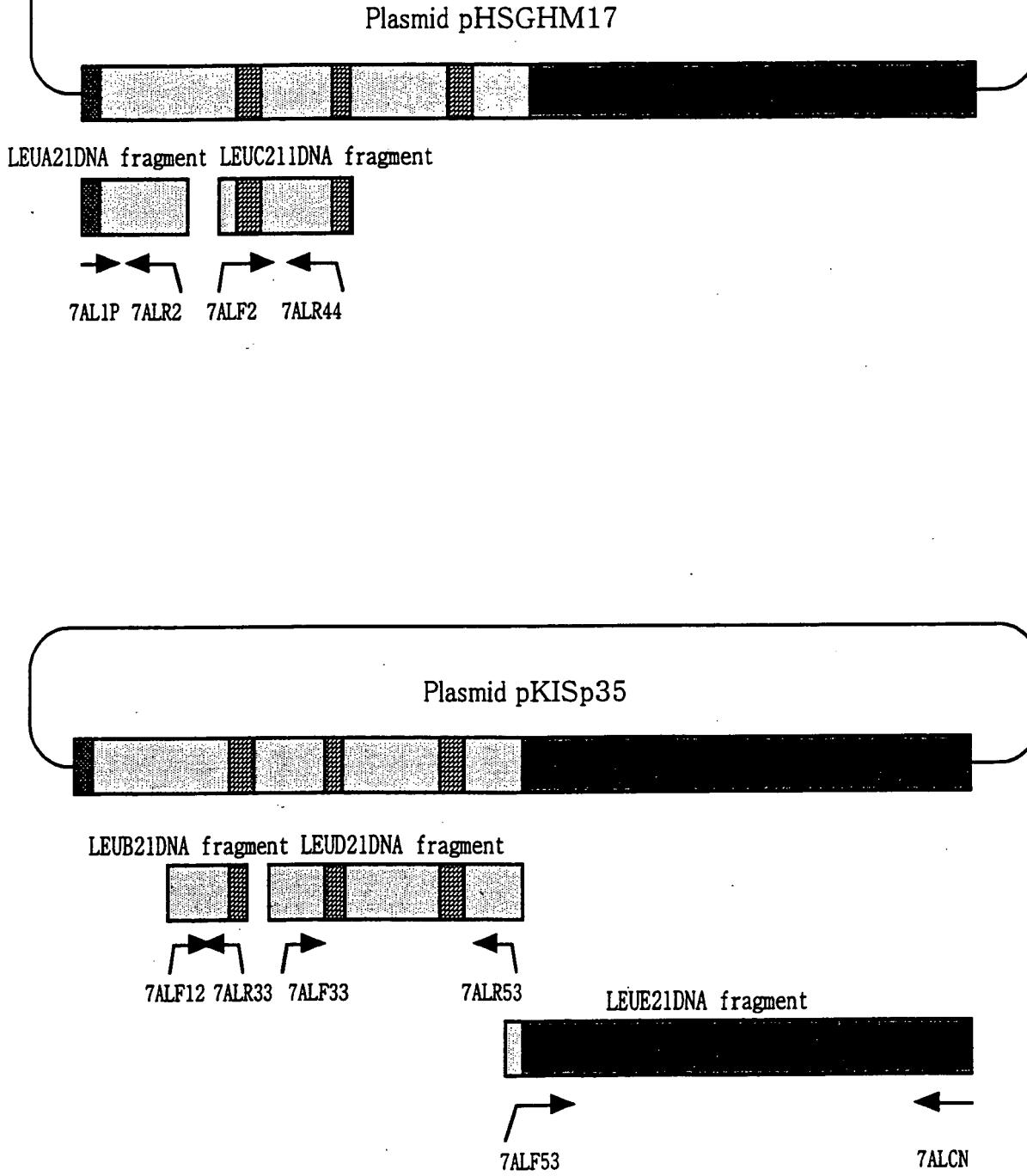


Fig. 52

Success
CDS
AY
DEPARTMENT
5/10/379.15

LEUA21DNA fragment



LEUB21DNA fragment



LEUC21DNA fragment



LEUD21DNA fragment



LEUE21DNA fragment



→
7AL1P

←
7ALCN

PCR



LEU2DNA fragment



Fig. 53

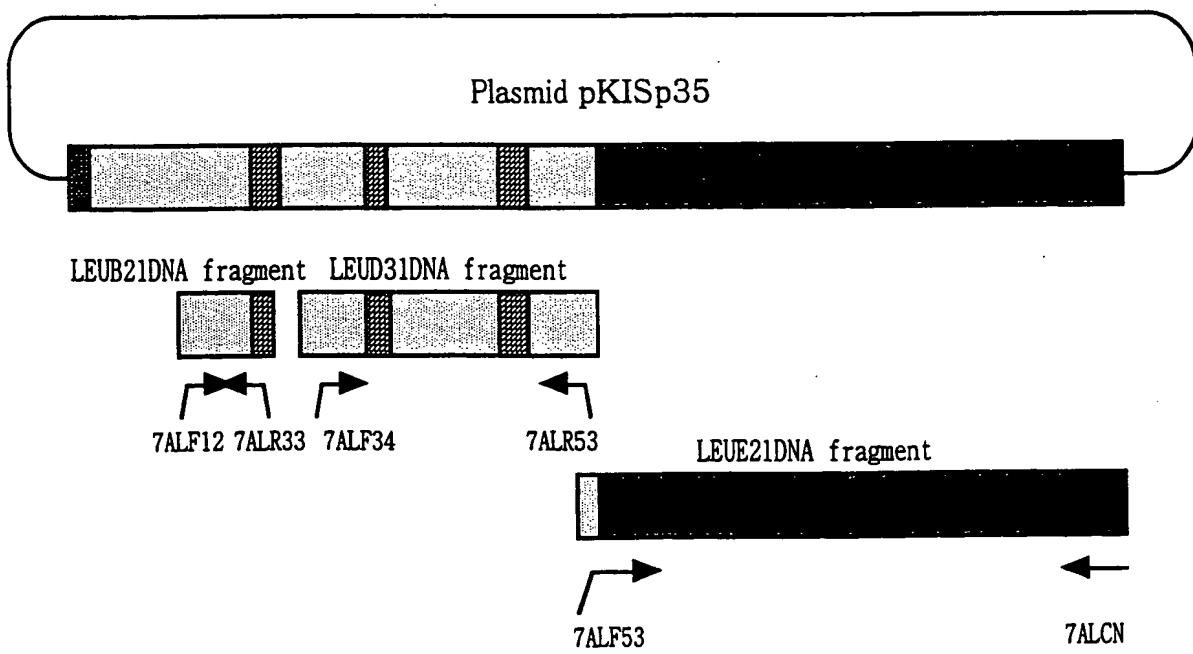
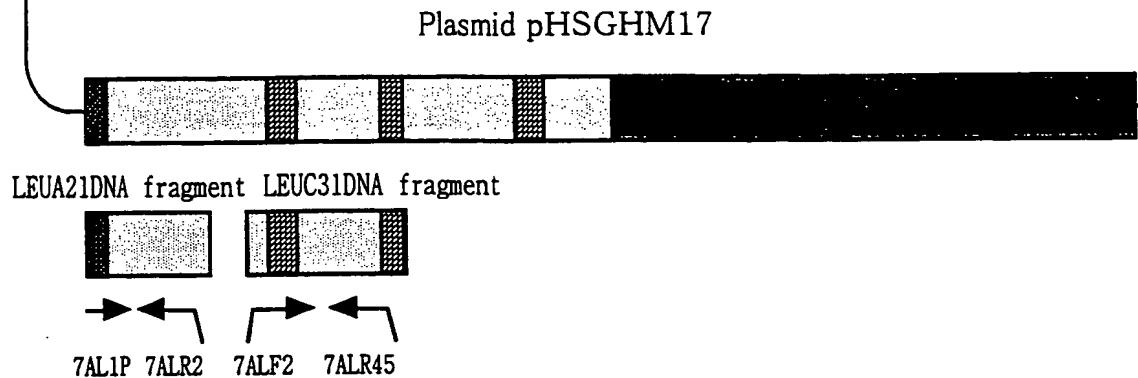


Fig. 54

LEUA21DNA fragment



LEUB21DNA fragment



LEUC31DNA fragment



LEUD31DNA fragment



LEUE21DNA fragment



7AL1P

7ALCN

PCR

LEU3-DNA fragment



Fig. 55

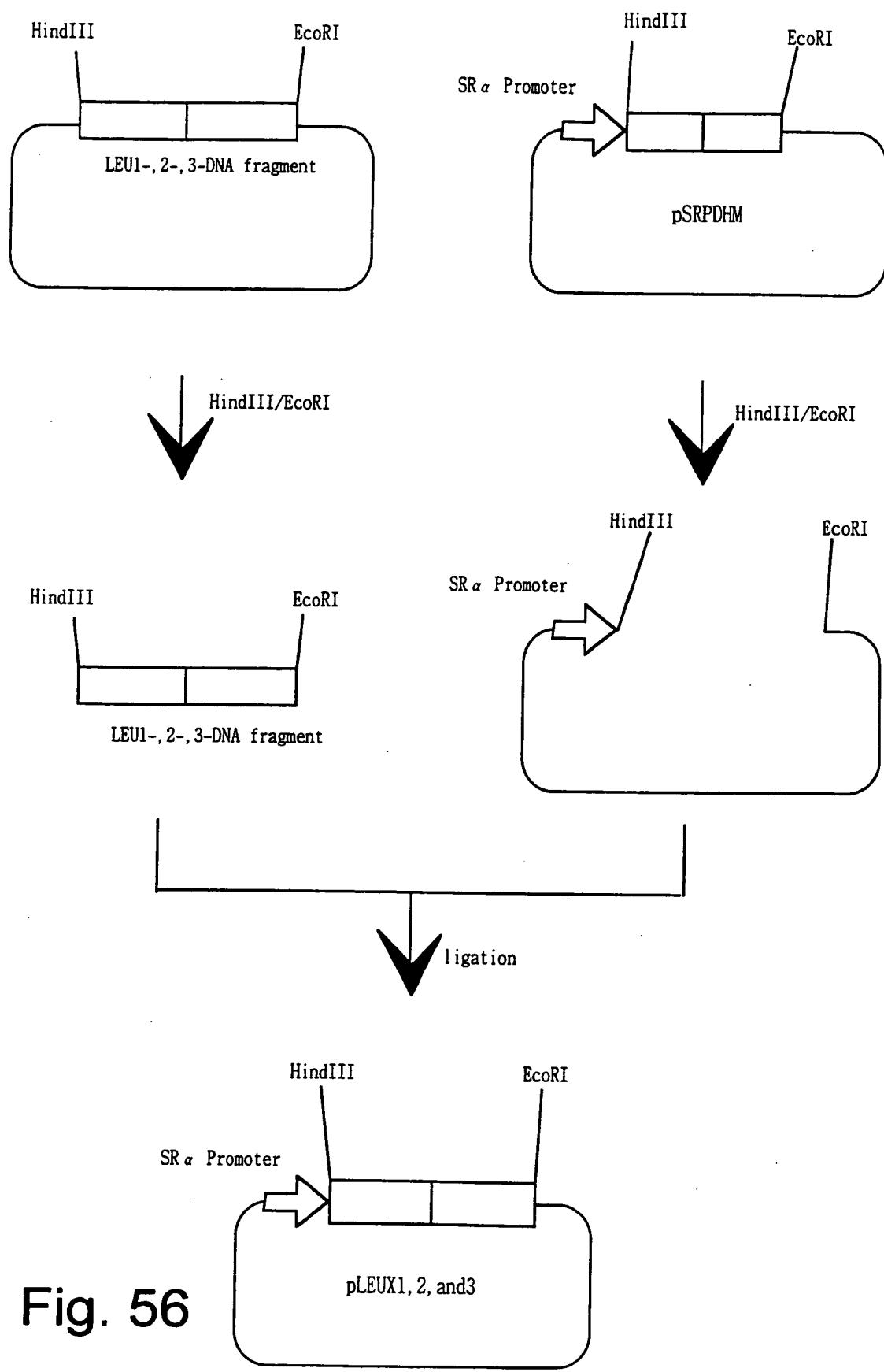


Fig. 56

APPROVED: O.C. F. 3
 BY CLASS SUBCLASS
 530 388.15
 DEPARTMENT

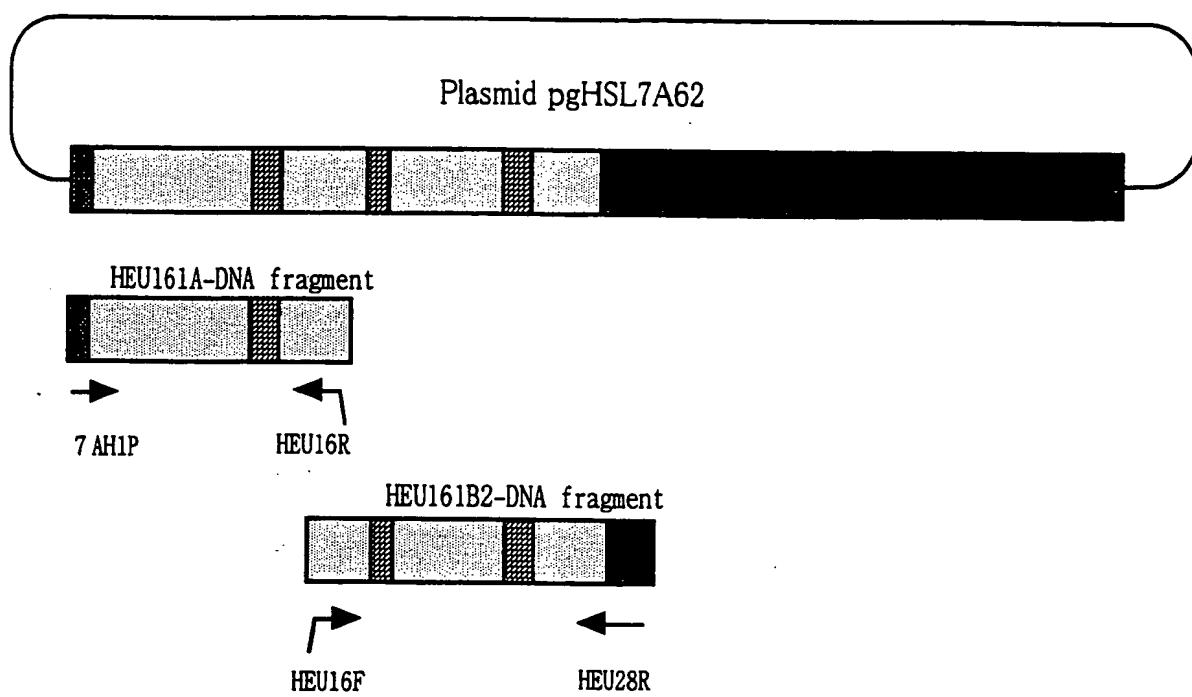


Fig. 57

HEU161A-DNA fragment



HEU161B2-DNA fragment

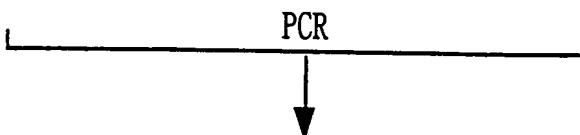
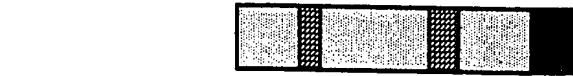
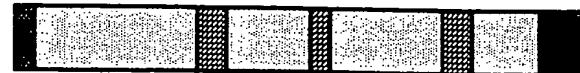


Fig. 58

HEU1-DNA fragment



SEARCHED
INDEXED
SERIALIZED
FILED
APR 20 1988
FBI - WASH. D.C.

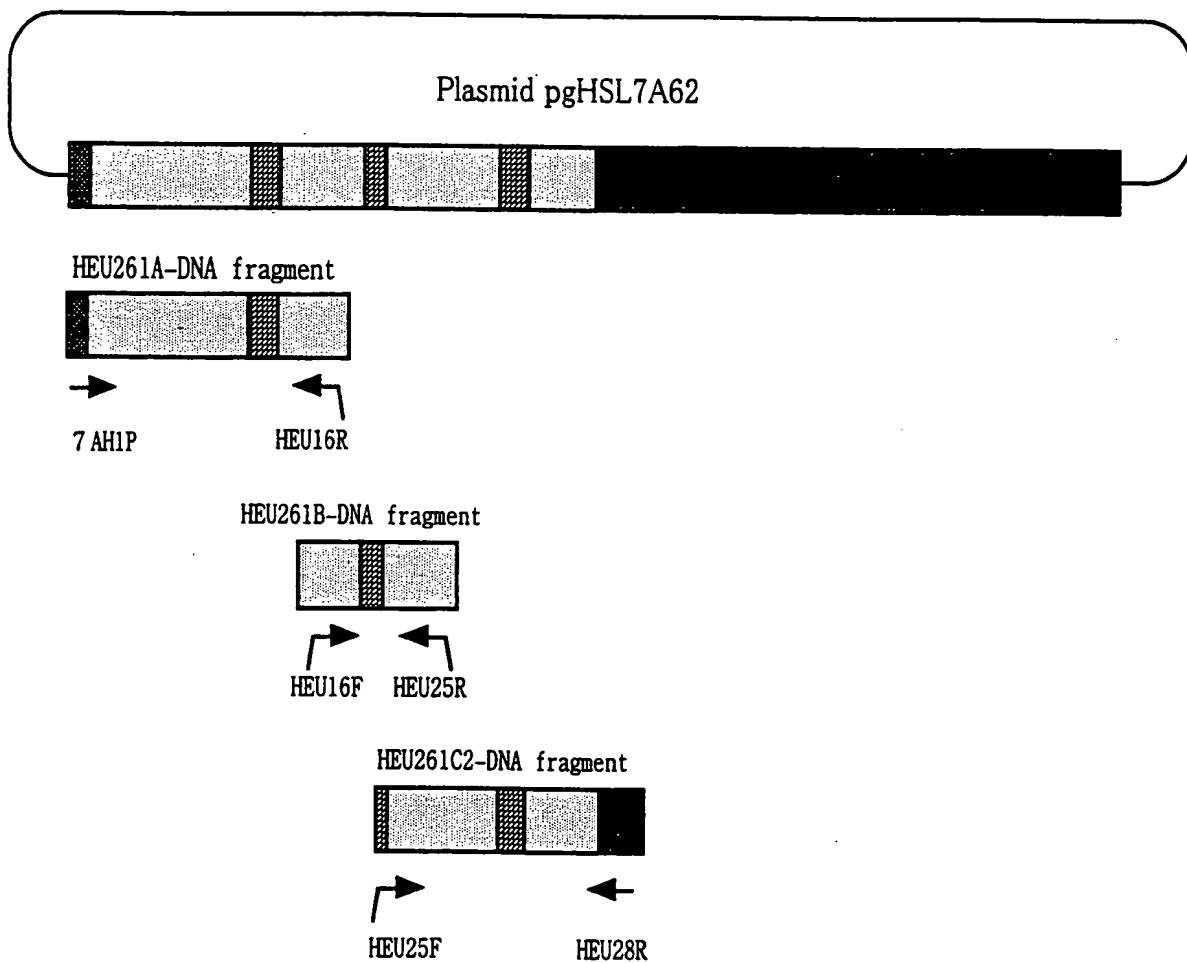
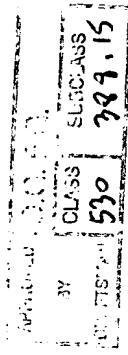


Fig. 59



SEARCHED INDEXED
CLASS 530 SERIALS 389.15
JULY 1981

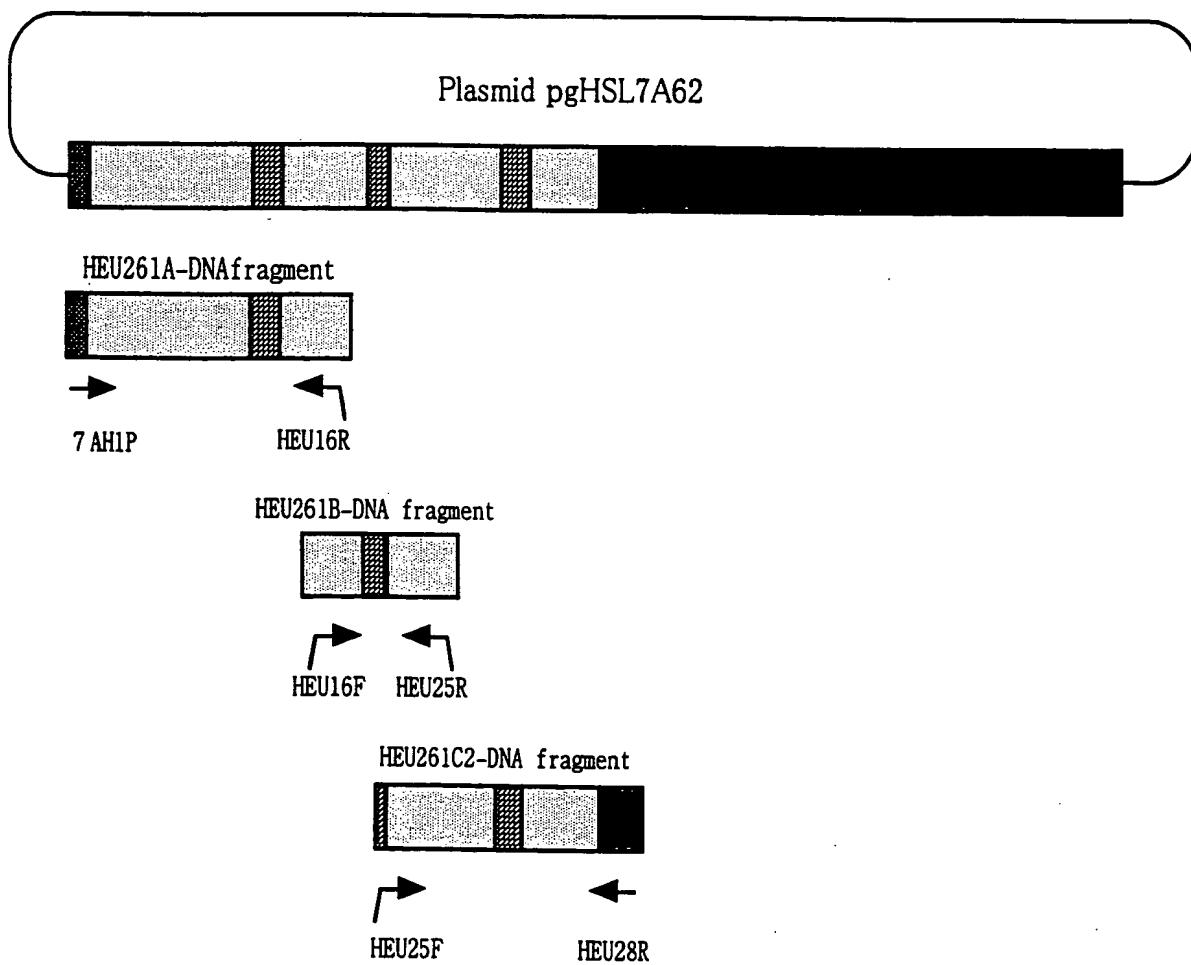


Fig. 60

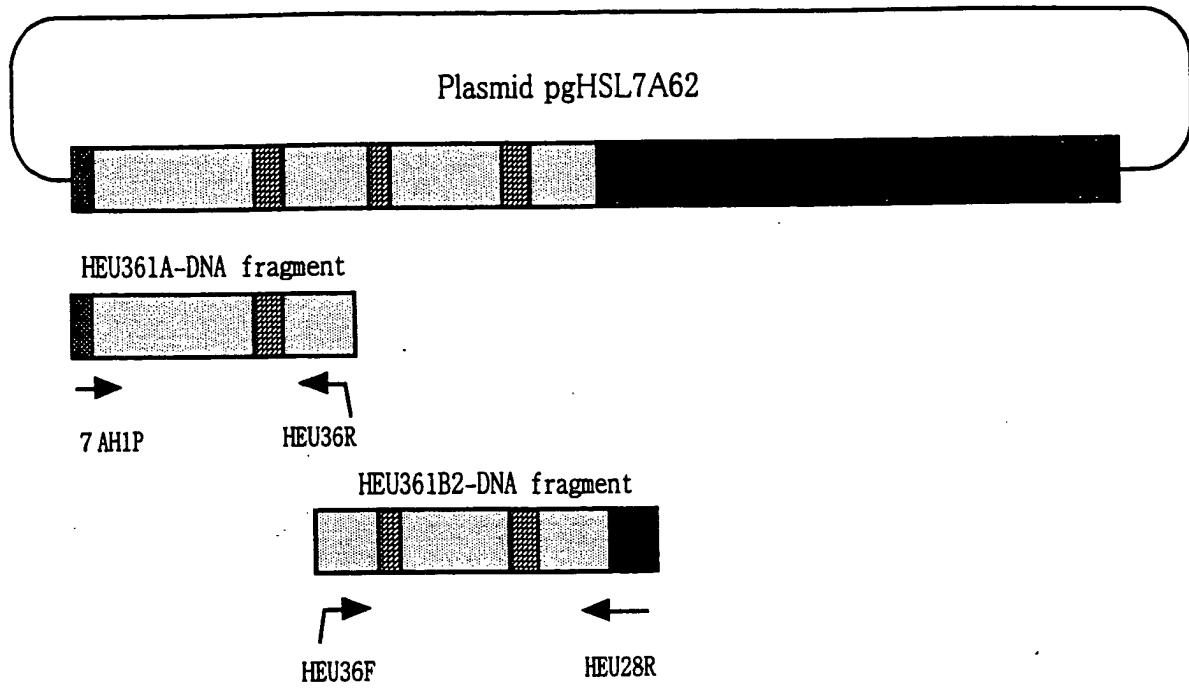


Fig. 61

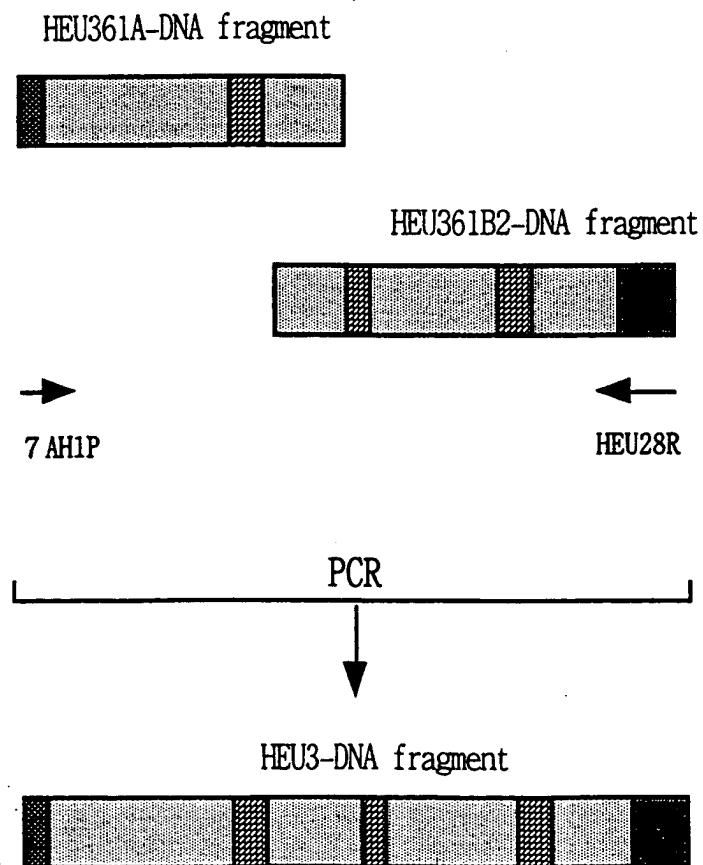


Fig. 62

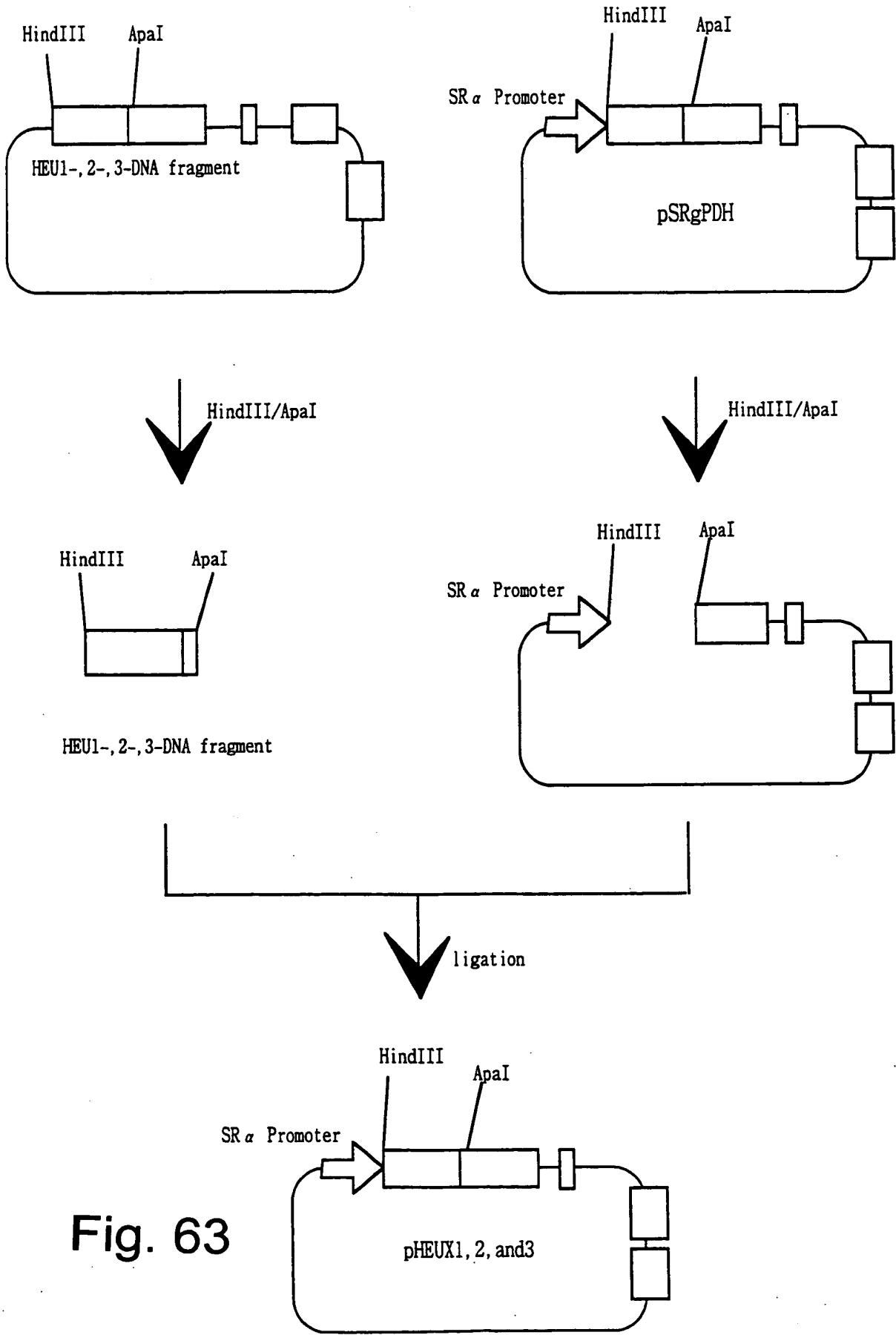
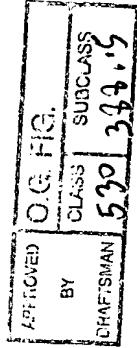


Fig. 63

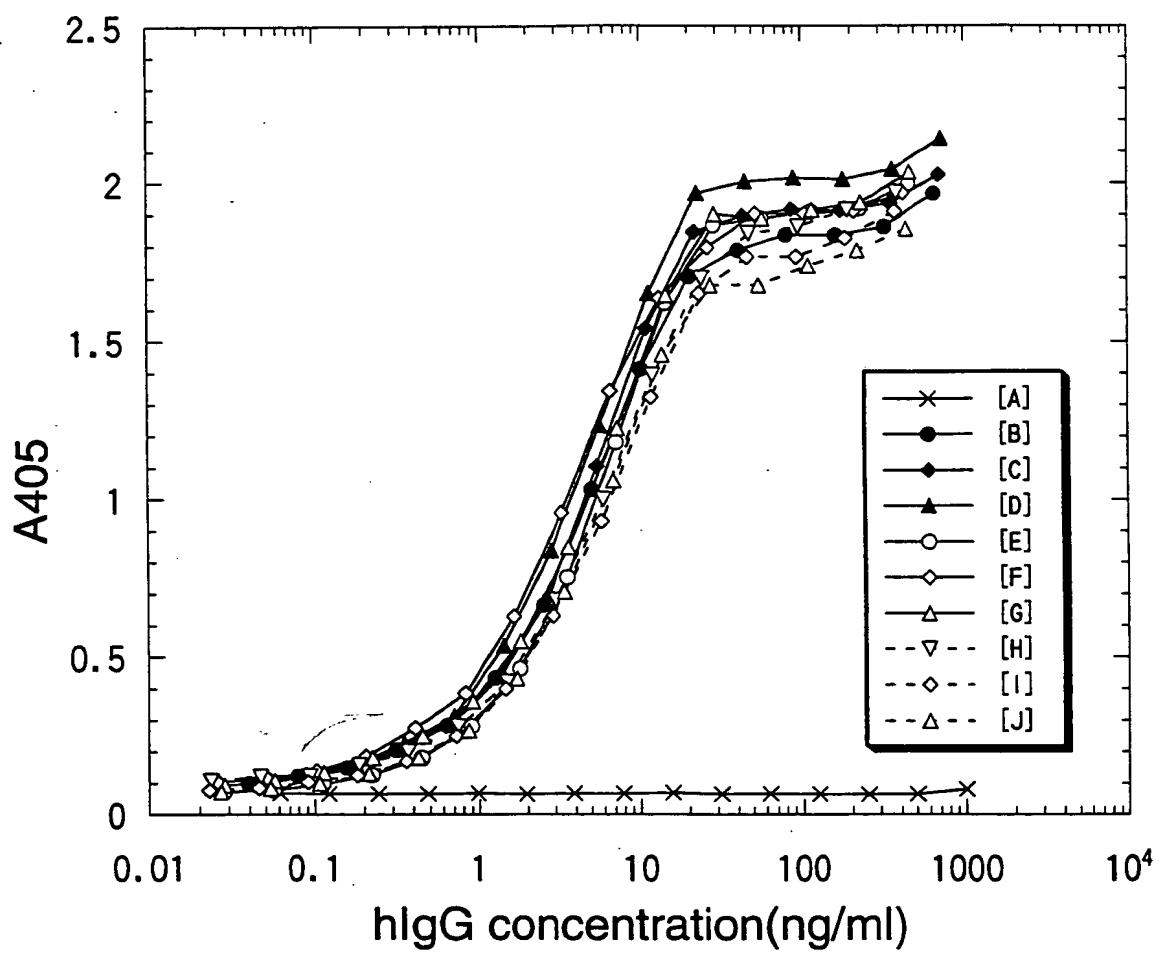
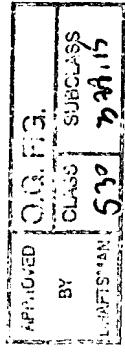


Fig. 64

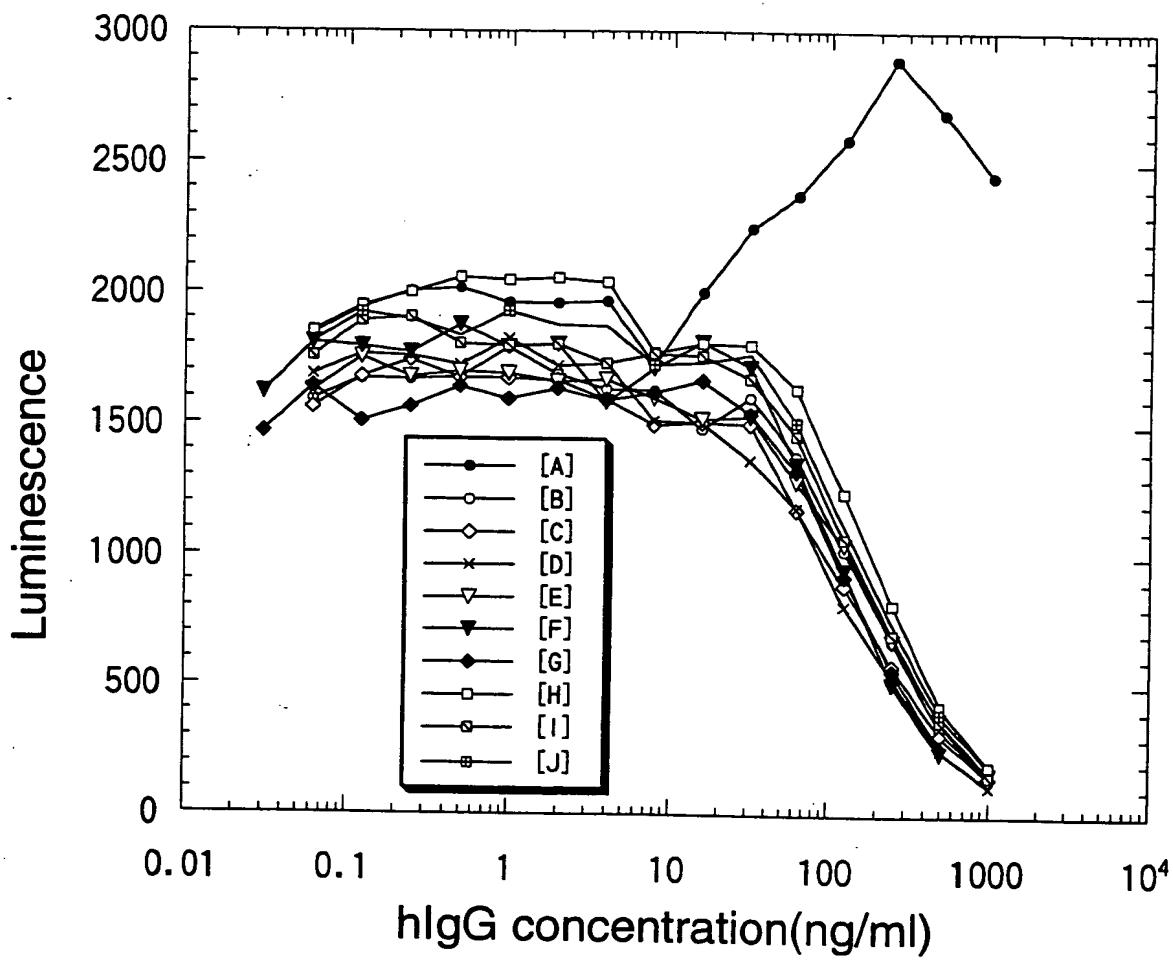


Fig. 65

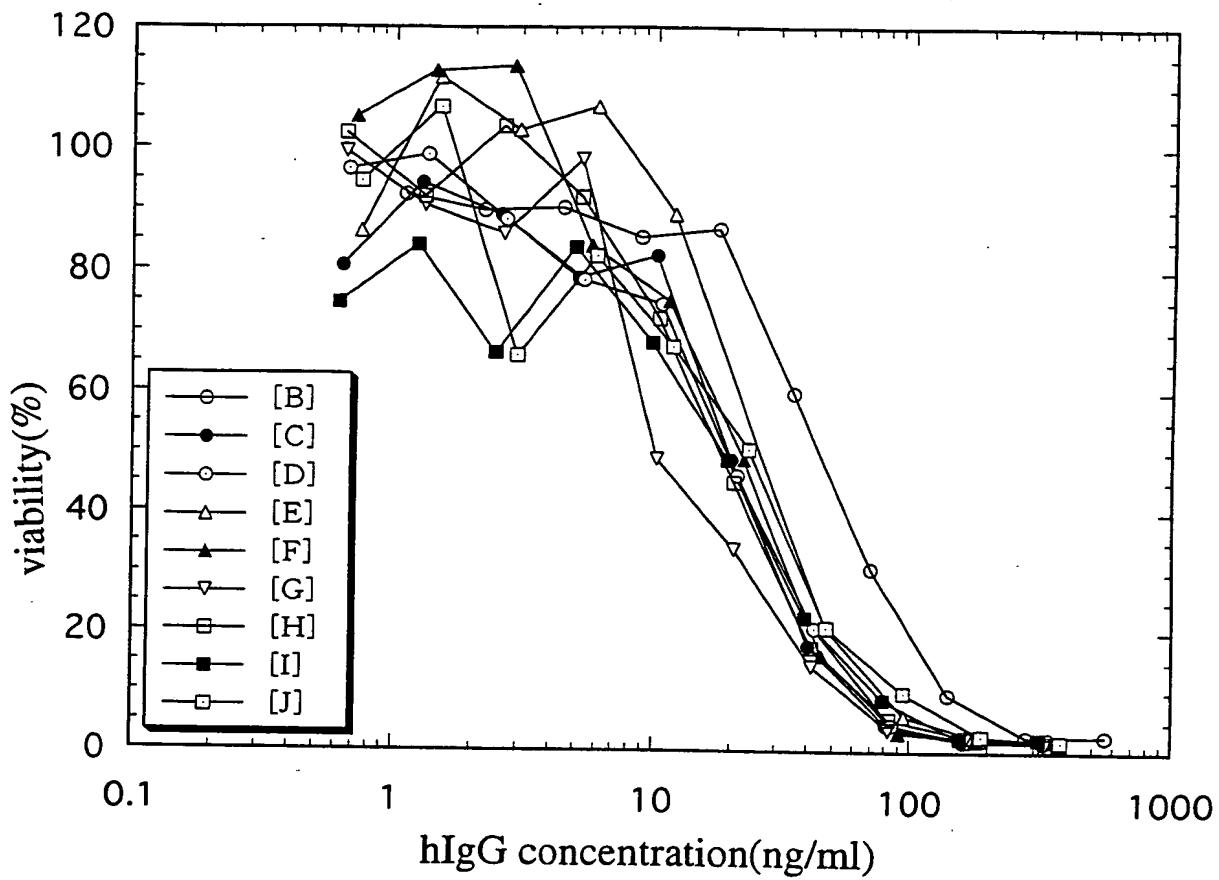


Fig. 66

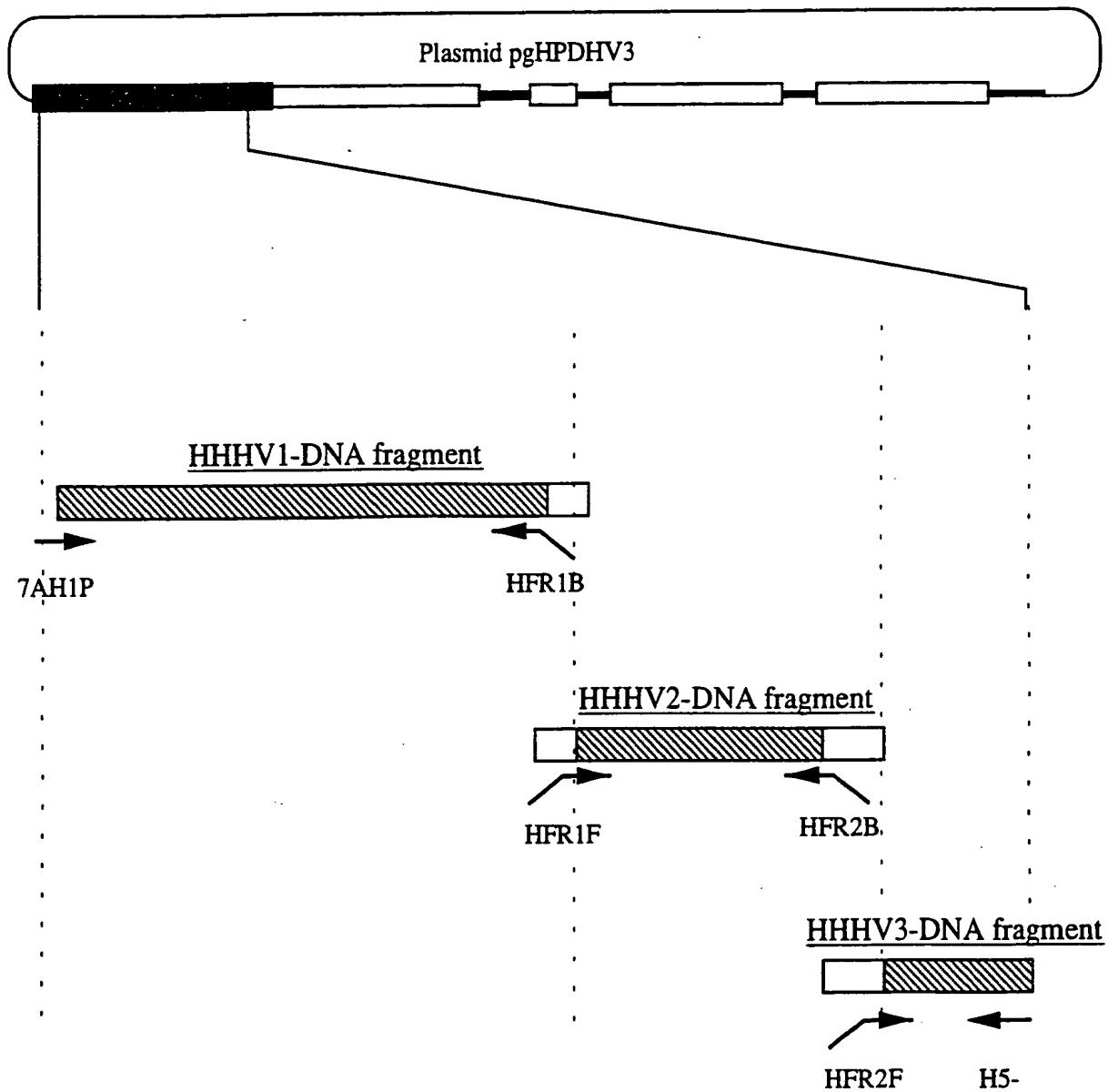


Fig. 67

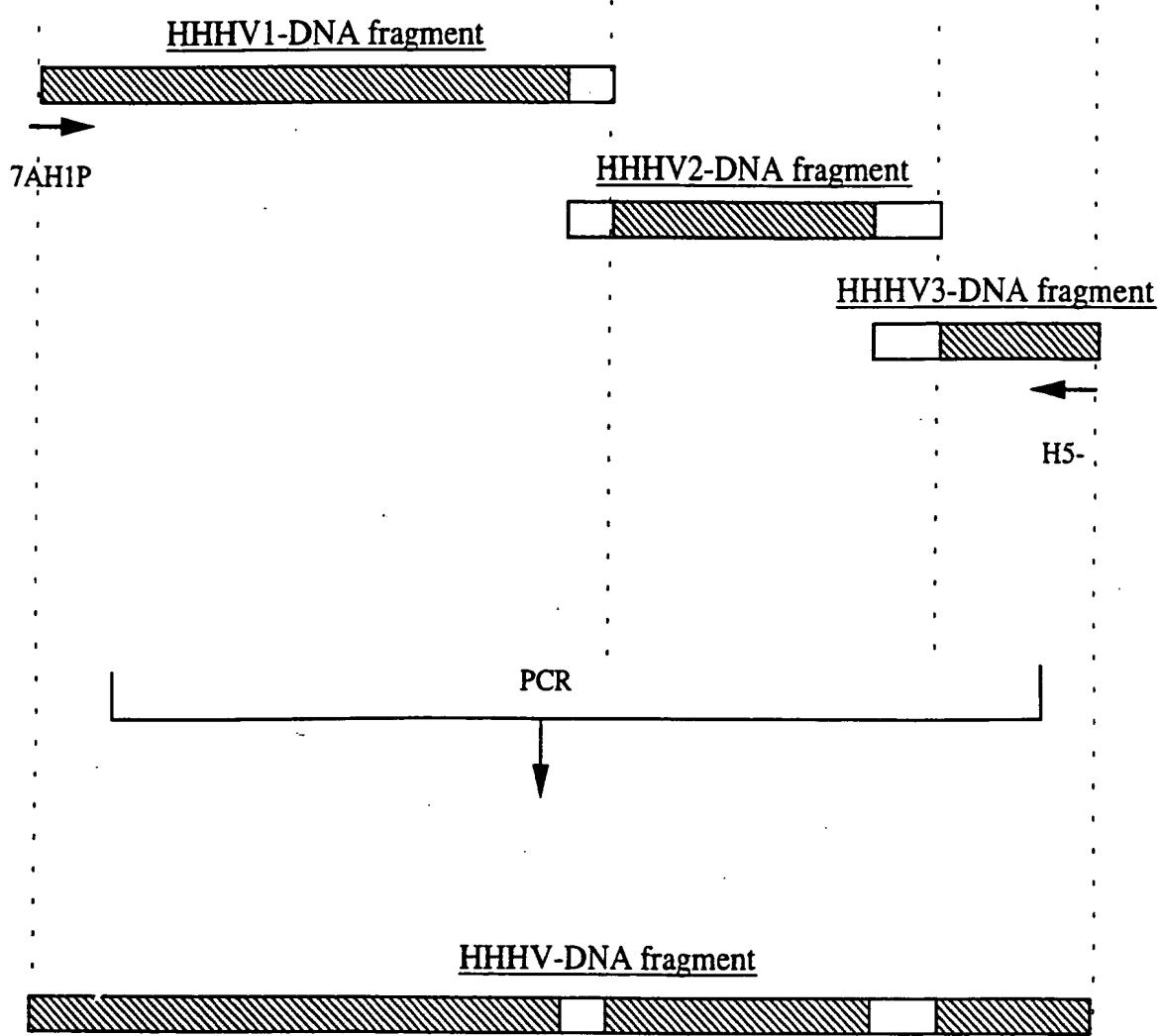


Fig. 68

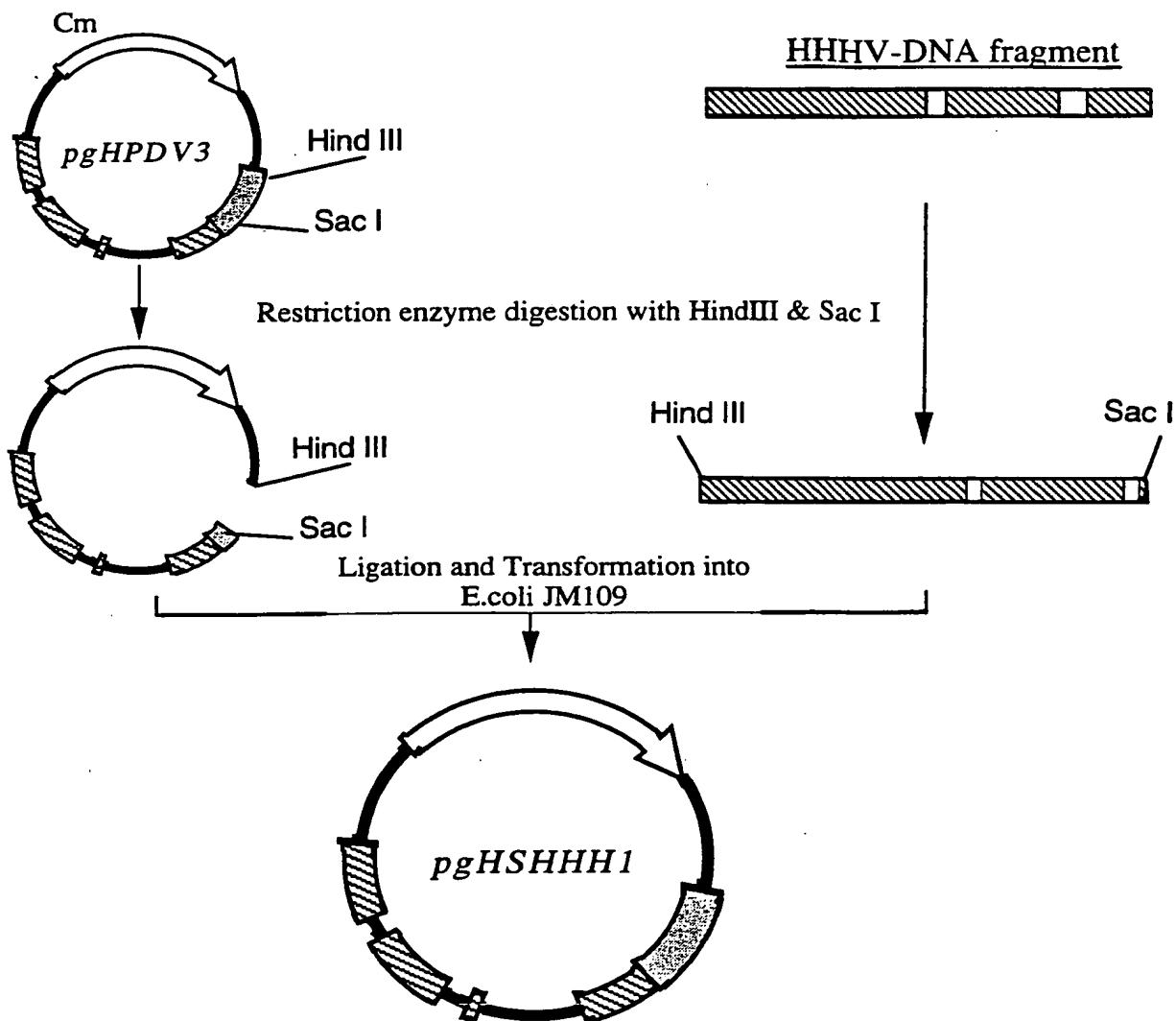


Fig. 69

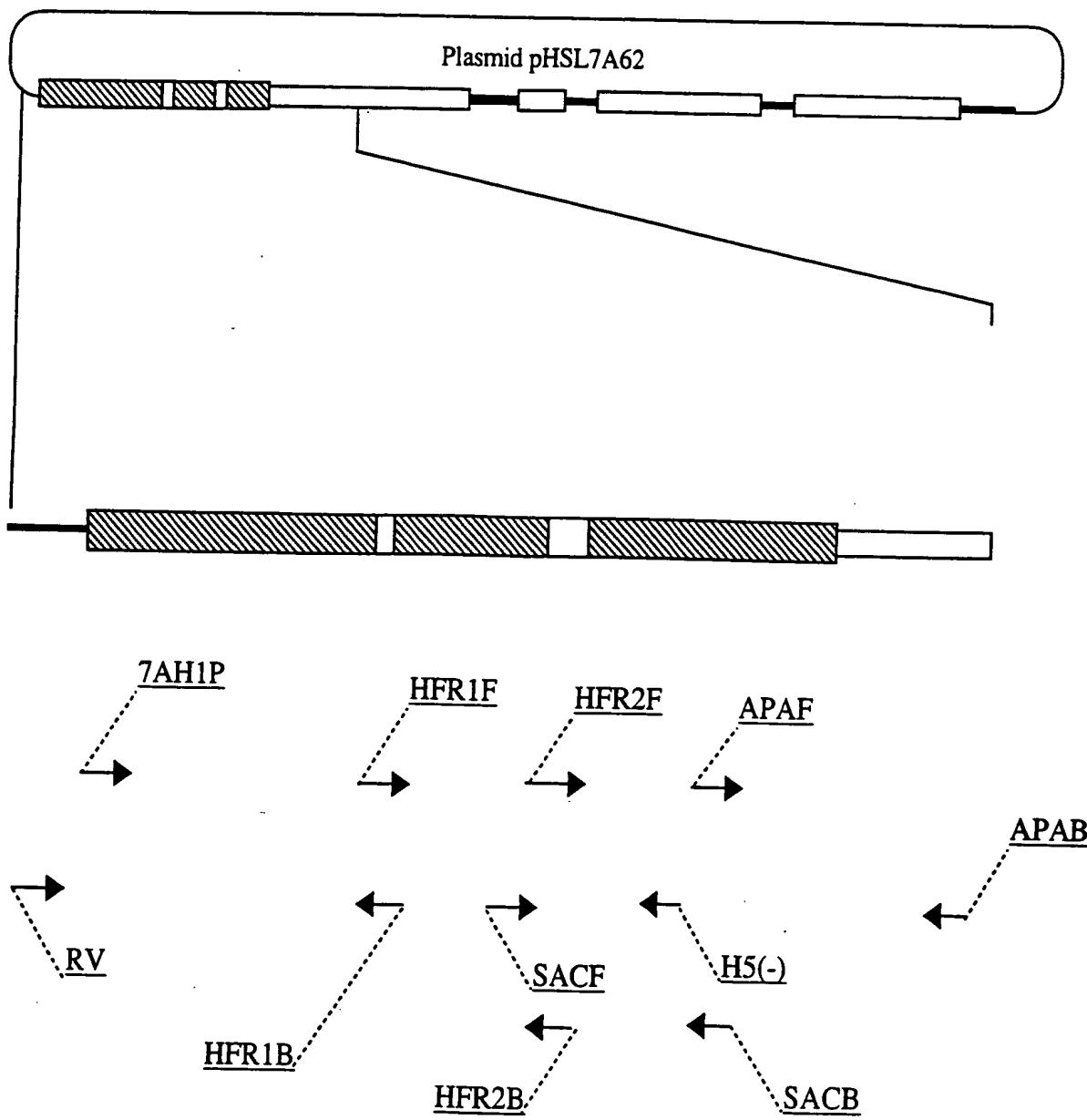


Fig. 70

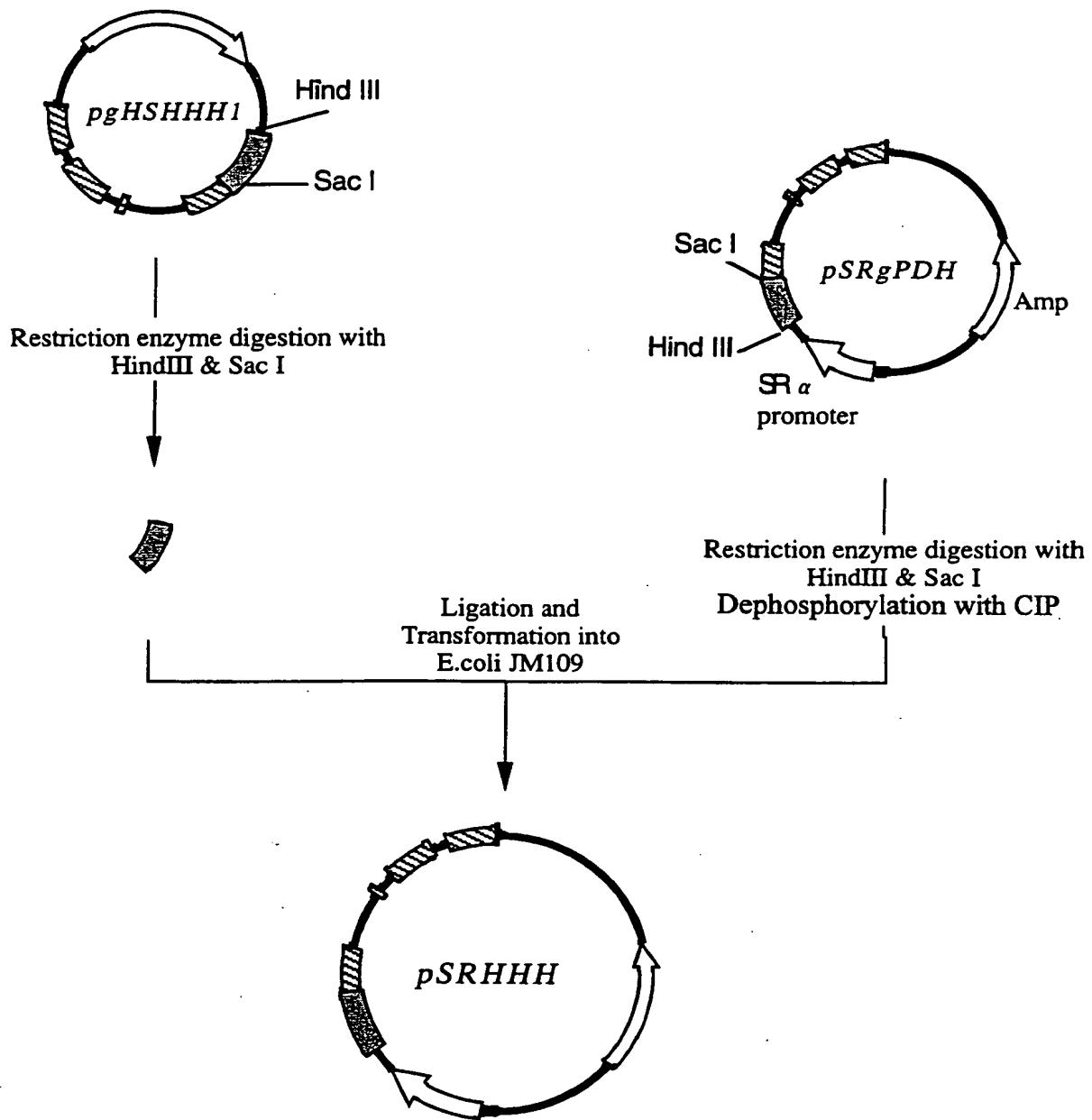


Fig. 71

